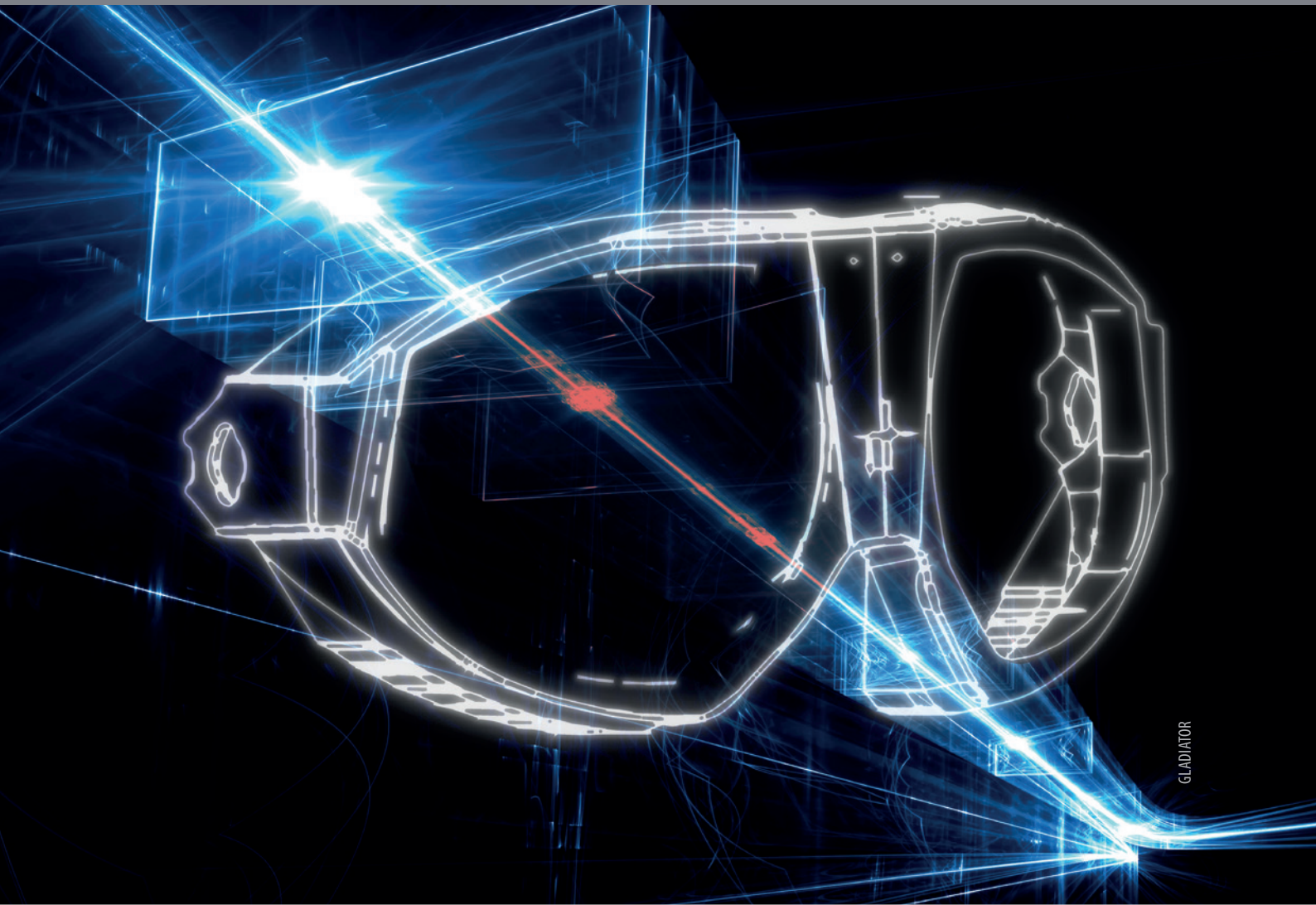




**Laserschutzbrillen für  
Industrie und F & E**

**Laser Safety Eyewear for  
Industry and R & D**

Laserschutzfilter mit Schutzbereich | Laser Safety Filters with Protection Range

Glass Filters

Special Plastic Filters

| Filter                  | Wavelength – Application |
|-------------------------|--------------------------|
| 193 – Excimer           |                          |
| 248 – UV                |                          |
| 266 – Nd:YAG (4x)       |                          |
| 355 – Nd:YAG (3x)       |                          |
| 515 – Argon             |                          |
| 532 – Nd:YAG (2x)       |                          |
| 595 – Dye               |                          |
| 633 – HeNe              |                          |
| 650 – Diode             |                          |
| 694 – Ruby              |                          |
| 755 – Alexandrit        |                          |
| 800 – Ti:Saphir         |                          |
| 808 – Diode             |                          |
| 940 – Diode             |                          |
| 1030 – Disk             |                          |
| 1064 – Nd:YAG           |                          |
| 1080 – Fibre            |                          |
| 1320 – Nd:YAG           |                          |
| 1550 – Telekom          |                          |
| 2100 – Ho:YAG           |                          |
| 2940 – Er:YAG           |                          |
| 10600 – CO <sub>2</sub> |                          |
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# Laserschutzbrillen (EN 207 / 208) | Laser Safety Eyewear (EN 207 / 208)

## Laserschutz auf höchstem technischen Standard

PROTECT-Laserschutz bietet für Anwendungen in Forschung und Entwicklung speziell abgestimmte Lösungen im Laserschutz an. Das breite Produktportfolio deckt in diesem Bereich typische Applikationen, wie UKP-Systeme (z.B. Ti-Sa), OPA / OPO-Systeme sowie Superkontinuum-Laser ab.

Laserschutzbrillen von PROTECT-Laserschutz zeichnen sich durch technisch höchstmögliche Laserschutzstufen aus, mit einer optimalen VLT in den Wellenlängenbereichen von UV über VIS / NIR bis IR. Unsere Laserschutzbrillen zeichnen sich durch einen hohen Tragekomfort und ein zeitgemäßes Design aus. Alle Gestelle und Filter sind nach EN 207 / 208 zertifiziert.

Bei verschiedenen Modellen sind Optionen, wie Kopfbänder, Tragekörbe oder Korrektioneinsätze verfügbar. Diverse Gestelle können mit Ihrem Firmenlogo und Ihrer Firmenfarbe individualisiert werden.

## Laser protection to the highest technical standard

PROTECT-Laserschutz offers specially adapted laser protection solutions for applications in research and development. The large product portfolio covers typical applications in this area, like UKP systems (for example Ti-Sa), OPA / OPO systems and supercontinuum lasers.

Laser safety eyewear from PROTECT-Laserschutz is characterized by technically highest possible laser protection levels, with an optimal VLT in the wavelength ranges, from UV to VIS / NIR to IR. Our laser safety eyewear is characterized by high wearing comfort and modern design. All frames and filters are certificated according to EN 207 / 208.

Options like headbands, carrying baskets or correction inserts are available on various models. Several frames can be customized with your company logo and color.

## Gestelle für Glasfilter – auch mit zertifizierten Kunststofffiltern erhältlich Frames for Mineral Glass Filters – also available with certified Special Plastic Filters



GLADIATOR <sup>1</sup>



RETRO



OPTIMATOR



SPECTOR <sup>1</sup>



STARLIGHT - EXTRA <sup>1\*</sup>



OVERSPEC II <sup>1</sup>

\* Filterdicke nur bis 3 mm möglich

\* Filter thickness only up to 3 mm possible

## Gestelle für Kunststofffilter | Frames for Special Plastic Filters



COMBOR



CONVEX



ONTOR <sup>1</sup>



OVERCOR



RONDOR



TERMINATOR



UNIVERSAL



ASTOR XL <sup>1</sup>

<sup>1</sup> Als Überbrille geeignet | <sup>1</sup> Suitable as over-glasses



## Mineralglasfilter und dielektrische Schichten | Mineral Glass Filters and Dielectric Coatings

| Filter | Characteristics                                        | Protection Level of the Filter (EN 207, 208) <sup>2</sup> | OD Diagram | Available Frames                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|--------------------------------------------------------|-----------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0140   | <b>Filter</b><br>915 – 955                             | DIR LB5                                                   | (OD 5+)    |  GLADIATOR 3*<br> OVERSPEC II 3*<br> RETRO *<br> SPECTOR 3         |
|        | <b>thickness:</b><br>5.0 mm <sup>1</sup>               | > 955 – 1000 DIR LB6                                      | (OD 6+)    |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>Filter color:</b><br>Light gray                     | > 1000 – 1025 DIR LB7 + M LB7Y                            | (OD 7+)    |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>Material:</b><br>Mineral glass                      | > 1025 – 1400 D LB7 + IR LB8 + M LB8Y                     | (OD 8+)    |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>VLT:</b> 70 % <sup>1</sup>                          | > 1400 – 2600 DI LB4                                      | (OD 4+)    |                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0142   | <b>Filter</b><br>180 – 315                             | D LB10 + IR LB5                                           | (OD 10+)   |  GLADIATOR 3*<br> OVERSPEC II 3*<br> RETRO *<br> SPECTOR 3         |
|        | <b>thickness:</b><br>5.2 mm <sup>1</sup>               | > 315 – 532 D LB7 + IR LB8 + M LB8Y                       | (OD 8+)    |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>Filter color:</b><br>Orange                         | PF CE                                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>Material:</b><br>Mineral glass                      |                                                           |            |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>VLT:</b> 40 % <sup>1</sup>                          |                                                           |            |                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0153   | <b>Filter</b><br>1025 – 1100                           | D LB8 + IR LB9 + M LB9Y                                   | (OD 9+)    |  GLADIATOR 3*<br> OVERSPEC II 3*<br> RETRO *<br> SPECTOR 3 |
|        | <b>thickness:</b><br>3.9 mm <sup>1</sup>               | PF CE                                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>Filter color:</b><br>Light gray                     |                                                           |            |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>Material:</b><br>Mineral glass + Dielectric coating |                                                           |            |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>VLT:</b> 58 % <sup>1</sup>                          |                                                           |            |                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0155   | <b>Filter</b><br>625 – 645                             | DIRM LB2                                                  | (OD 2+)    |  GLADIATOR 3*<br> OVERSPEC II 3*<br> RETRO *<br> SPECTOR 3 |
|        | <b>thickness:</b><br>5.4 mm <sup>1</sup>               | > 645 – 660 DIRM LB3                                      | (OD 3+)    |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>Filter color:</b><br>Turquoise                      | > 660 – 675 DIRM LB4                                      | (OD 4+)    |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>Material:</b><br>Mineral glass                      | > 675 – 690 DIRM LB5                                      | (OD 5+)    |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>VLT:</b> 45 % <sup>1</sup>                          | > 690 – 700 DIRM LB6                                      | (OD 6+)    |                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0159   | <b>Filter</b><br>4750 – 11000                          | DI LB5                                                    | (OD 5+)    |  GLADIATOR 3*<br> OVERSPEC II 3*<br> RETRO *<br> SPECTOR 3 |
|        | <b>thickness:</b><br>3.7 mm <sup>1</sup>               | PF CE                                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>Filter color:</b><br>clear                          |                                                           |            |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>Material:</b><br>Mineral glass                      |                                                           |            |                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | <b>VLT:</b> 90 % <sup>1</sup>                          |                                                           |            |                                                                                                                                                                                                                                                                                                                                                                                                                |

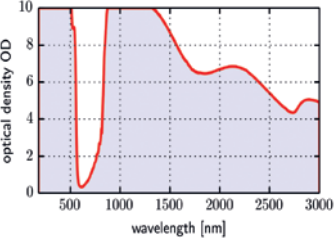
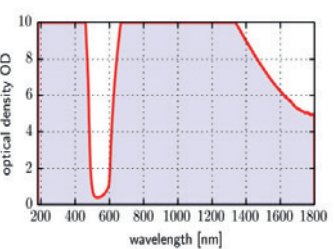
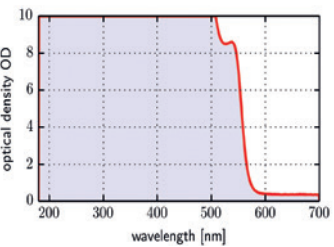
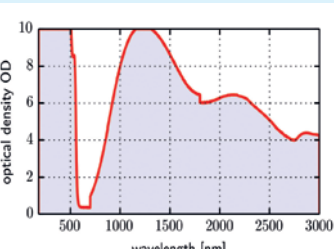
# Mineralglasfilter und dielektrische Schichten | Mineral Glass Filters and Dielectric Coatings

| Filter | Characteristics                                        | Protection Level of the Filter (EN 207, 208) <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | OD Diagram | Available Frames                                                                                              |
|--------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------|
| 0170   | <b>Filter thickness:</b><br>6.0 mm <sup>1</sup>        | 610 – 640 DIR LB2 (OD 2+)<br>>640 – 670 DIR LB3 (OD 3+)<br>>670 – 705 DIR LB4 (OD 4+)<br>>705 – 745 DIR LB5 (OD 5+)<br>>745 – 780 DIR LB6 (OD 6+)<br>>780 – 840 DIR LB7 (OD 7+)                                                                                                                                                                                                                                                                                                                                                                 |            | <br>GLADIATOR <sup>3</sup> *<br><br>RETRO *<br><br>OVERSPEC II <sup>3</sup> *<br><br>SPECTOR <sup>3</sup>     |
|        | <b>Filter color:</b><br>Blue-green                     | >780 – 840 DIR LB7 (OD 7+)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                                                                                               |
|        | <b>Material:</b><br>Mineral glass                      | >840 – 1200 D LB7 + IR LB8 (OD 8+)<br>900 – 1200 M LB8Y (OD 8+)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                               |
|        | <b>VLT:</b> 15 % <sup>1</sup>                          | PF CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                                                               |
| 0216   | <b>Filter thickness:</b><br>5.0 mm <sup>1</sup>        | 180 – 315 D LB10 + IR LB5 (OD 10+)<br>>315 – 565 D LB6 + IR LB8 + M LB8Y (OD 8+)<br>>565 – 585 D LB6 + IR LB7 + M LB7Y (OD 7+)<br>>585 – 590 DIRM LB6 (OD 6+)<br>>590 – 595 DIRM LB4 (OD 4+)<br>>595 – 600 DIRM LB2 (OD 2+)                                                                                                                                                                                                                                                                                                                     |            | <br>GLADIATOR <sup>3</sup> *<br><br>RETRO *<br><br>OVERSPEC II <sup>3</sup> *<br><br>SPECTOR <sup>3</sup>     |
|        | <b>Filter color:</b><br>Red                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                               |
|        | <b>Material:</b><br>Mineral glass                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                               |
|        | <b>VLT:</b> 7 % <sup>1</sup>                           | PF CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                                                               |
| 0226   | <b>Filter thickness:</b><br>5.6 mm <sup>1</sup>        | 610 – 628 DIRM LB2 (OD 2+)<br>629 – 643 DIRM LB3 (OD 3+)<br>644 – 656 DIRM LB4 (OD 4+)<br>657 – 668 DIRM LB5 (OD 5+)<br>669 – 679 DIRM LB6 (OD 6+)<br>680 – 689 DIRM LB7 (OD 7+)<br>690 – 699 DIR LB7 + M LB8Y (OD 8+)<br>700 – 1271 D LB7 + IR LB8 + M LB8Y (OD 8+)<br>1272 – 1308 DIR LB7 + M LB8Y (OD 8+)<br>1309 – 1346 DIRM LB7 (OD 7+)<br>1347 – 1391 DIRM LB6 (OD 6+)<br>1392 – 1399 DIRM LB5 (OD 5+)<br>1400 – 1444 DI LB5 + R LB4 (OD 5+)<br>1445 – 1506 DIR LB4 (OD 4+)<br>1507 – 1580 DIR LB3 (OD 3+)<br>1581 – 1690 DIR LB2 (OD 2+) |            | <br>GLADIATOR <sup>3</sup> *<br><br>RETRO *<br><br>OVERSPEC II <sup>3</sup> *<br><br>SPECTOR <sup>3</sup>     |
|        | <b>Filter color:</b><br>Blue                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                               |
|        | <b>Material:</b><br>Mineral glass                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                               |
|        | <b>VLT:</b> 35 % <sup>1</sup>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                               |
| 0231   | <b>Filter thickness:</b><br>2 mm <sup>1</sup>          | 577 – 580 DIR LB4 (OD 4+)<br>580 – 585 DIR LB5 (OD 5+)<br>>585 – 700 DIR LB6 (OD 6+)<br>>700 – 704 DIR LB5 (OD 5+)                                                                                                                                                                                                                                                                                                                                                                                                                              |            | <br>GLADIATOR <sup>3</sup> *<br><br>RETRO *<br><br>SPECTOR <sup>3</sup><br><br>STARLIGHT - Extra <sup>3</sup> |
|        | <b>Filter color:</b><br>Blue                           | PF CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                                                               |
|        | <b>Material:</b><br>Mineral glass + Dielectric coating |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                               |
|        | <b>VLT:</b> 48 % <sup>1</sup>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                               |
| 0234   | <b>Filter thickness:</b><br>9 mm <sup>1</sup>          | 570 – 578 DIRM LB1 (OD 1+)<br>>578 – 585 DIRM LB3 (OD 3+)<br>>585 – 590 DIRM LB5 (OD 5+)<br>>590 – 1000 DIRM LB6 (OD 6+)<br>>1000 – 1030 DIRM LB7 (OD 7+)<br>>1030 – 1400 D LB7 + IR LB8 + M LB8Y (OD 8+)<br>>1400 – 11500 DI LB4 + R LB3Y + M LB5Y (OD 4+)                                                                                                                                                                                                                                                                                     |            | <br>GLADIATOR <sup>3</sup> *<br><br>SPECTOR <sup>3</sup>                                                      |
|        | <b>Filter color:</b><br>Turquoise                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                               |
|        | <b>Material:</b><br>Mineral glass + Dielectric coating |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                               |
|        | <b>VLT:</b> 25 % <sup>1</sup>                          | PF CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                                                               |

<sup>1</sup> Gemessener Wert; kleine Abweichungen möglich | <sup>1</sup> Measured value; small deviation possible; <sup>2</sup> Schutzstufen können in Gestellen leicht variieren | <sup>2</sup> Protection levels can vary slightly in frames; <sup>3</sup> Als Überbrille geeignet | <sup>3</sup> Suitable as over-glasses; Abbildungen ähnlich | pictures similar

\* M-Schutzstufen dieses Gestells zwischen 1400 – 11000 nm befinden sich in der Erweiterung | \* M-protection levels of this frame between 1400 – 11000 nm are in extension

## Mineralglasfilter und dielektrische Schichten | Mineral Glass Filters and Dielectric Coatings

| Filter | Characteristics                                                                                                                                                                    | Protection Level of the Filter (EN 207, 208) <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | OD Diagram                                                                           | Available Frames                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0240   | <b>Filter thickness:</b><br>8.5 mm <sup>1</sup><br><b>Filter color:</b><br>Amber<br><b>Material:</b><br>Mineral glass + Dielectric coating<br><b>VLT:</b> 30 % <sup>1</sup>        | 180 – 315 D LB10 + IR LB5 (OD 10+)<br>> 315 – 532 D LB7 + IR LB8 + M LB8Y (OD 8+)<br>800 – 820 DIR LB2 (OD 2+)<br>> 820 – 840 DIR LB3 (OD 3+)<br>> 840 – 860 DIR LB4 (OD 4+)<br>> 860 – 900 DIR LB7 (OD 7+)<br>> 900 – 1100 DR LB8 + I LB9 + M LB9Y (OD 9+)<br>> 1100 – 1400 D LB7 + IR LB8 + M LB8Y (OD 8+)<br>> 1400 – 3000 DIR LB4 (OD 4+)<br>4000 – 9000 DIR LB4 (OD 4+)<br>9000 – 11000 DI LB5 + R LB4 (OD 5+)<br>PF CE                                                                                                                                                                                                                                                                                        |    | <br>GLADIATOR <sup>3*</sup><br><br>SPECTOR <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                          |
|        | <b>Filter thickness:</b><br>11 mm <sup>1</sup><br><b>Filter color:</b><br>Multi-colored<br><b>Material:</b><br>Mineral glass + Dielectric coating<br><b>VLT:</b> 30 % <sup>1</sup> | 180 – 315 D LB10 + IR LB5 + M LB6Y (OD 10+)<br>> 315 – 465 D LB6 + IR LB7 + M LB7Y (OD 7+)<br>> 465 – 470 D LB6 + IR LB7 + M LB7Y (OD 7+)<br>> 470 – 475 DIRM LB6 (OD 6+)<br>> 475 – 480 DIRM LB4 (OD 4+)<br>> 480 – 484 DIRM LB3 (OD 3+)<br>> 484 – 487 DIRM LB2 (OD 1+)<br>> 487 – 494 DIRM LB1 (OD 1+)<br>608 – 620 DIRM LB1 (OD 1+)<br>> 620 – 624 DIRM LB3 (OD 3+)<br>> 624 – 629 DIRM LB4 (OD 4+)<br>> 629 – 634 DIRM LB5 (OD 5+)<br>> 634 – 640 DIRM LB6 (OD 6+)<br>> 640 – 648 DIRM LB7 (OD 7+)<br>> 648 – 659 D LB7 + IR LB8 + M LB8Y (OD 8+)<br>> 659 – 1400 D LB7 + IR LB9 + M LB8Y (OD 9+)<br>> 1400 – 2030 DI LB5 + R LB3Y + M LB5Y (OD 5+)<br>> 2030 – 2384 DI LB4 + R LB3Y + M LB4Y (OD 4+)<br>PF CE |    | <br>GLADIATOR <sup>3*</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 0261   | <b>Filter thickness:</b><br>4.4 mm <sup>1</sup><br><b>Filter color:</b><br>Orange<br><b>Material:</b><br>Mineral glass<br><b>VLT:</b> 40 % <sup>1</sup>                            | 180 – 315 D LB10 + IR LB5 + M LB6Y (OD 10+)<br>> 315 – 518 D LB6 + I LB8 + R LB9 + M LB7Y (OD 9+)<br>> 518 – 532 D LB6 + IR LB8 + M LB7Y (OD 8+)<br>PF CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <br>GLADIATOR <sup>3*</sup><br><br>OVERSPEC II <sup>3*</sup><br><br>RETRO <sup>*</sup><br><br>SPECTOR <sup>3</sup><br><br>UNIVERSAL-kaschiert |
|        | <b>Filter thickness:</b><br>8.3 mm <sup>1</sup><br><b>Filter color:</b><br>Red<br><b>Material:</b><br>Mineral glass<br><b>VLT:</b> 25 % <sup>1</sup>                               | 180 – 315 D LB10 + IR LB5 + M LB6Y (OD 10+)<br>> 315 – 518 D LB7 + I LB8 + R LB9 + M LB8Y (OD 9+)<br>> 518 – 532 D LB7 + IR LB8 + M LB8Y (OD 8+)<br>800 – 808 DIRM LB2 (OD 2+)<br>> 808 – 843 DIRM LB3 (OD 3+)<br>> 843 – 881 DIRM LB4 (OD 4+)<br>882 – 907 DIRM LB5 (OD 5+)<br>> 907 – 1000 DIRM LB6 (OD 6+)<br>> 1000 – 1005 DIRM LB7 (OD 7+)<br>> 1005 – 1060 D LB7 + IRM LB8 (OD 8+)<br>> 1060 – 1400 D LB7 + IRM LB9 (OD 9+)<br>> 1400 – 9000 DI LB4 + R LB3Y (OD 4+)<br>9000 – 11000 DI LB5 + R LB3Y + M LB5Y (OD 5+)<br>PF CE                                                                                                                                                                                |  | <br>GLADIATOR <sup>3*</sup><br><br>SPECTOR <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                      |

# Mineralglasfilter und dielektrische Schichten | Mineral Glass Filters and Dielectric Coatings

| Filter | Characteristics               | Protection Level of the Filter (EN 207, 208) <sup>2</sup> | OD Diagram                             | Available Frames                                                                                                                                                                                                                                                                                                                                   |
|--------|-------------------------------|-----------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0263   | <b>Filter</b>                 | 610 – 641                                                 | DIRM LB1 (OD 1+)                       |  <br>  |
|        | <b>thickness:</b>             | > 641 – 666                                               | DIRM LB2 (OD 2+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | 4.8 mm <sup>1</sup>           | > 666 – 685                                               | DIRM LB3 (OD 3+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Filter color:</b>          | > 685 – 703                                               | DIRM LB4 (OD 4+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | Blue                          | > 703 – 720                                               | DIRM LB5 (OD 5+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | > 720 – 735                                               | DIRM LB6 (OD 6+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Material:</b>              | > 735 – 899                                               | DIRM LB7 (OD 7+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | Mineral glass                 | 900 – 1100                                                | D LB7 + IRM LB9 (OD 9+)                |                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>VLT:</b> 40 % <sup>1</sup> | 1101 – 1400                                               | DIRM LB6 (OD 6+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | > 1400 – 2030                                             | DI LB5 + R LB3Y + M LB5Y (OD 5+)       |                                                                                                                                                                                                                                                                                                                                                    |
| 0264   | <b>Filter</b>                 | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y (OD 10+)      |                                                                                                                                                                            |
|        | <b>thickness:</b>             | > 315 – 532                                               | D LB7 + I LB8 + R LB9 + M LB8Y (OD 9+) |                                                                                                                                                                                                                                                                                                                                                    |
|        | 7.9 mm <sup>1</sup>           | > 532 – 535                                               | D LB7 + IR LB8 + M LB8Y (OD 8+)        |                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Filter color:</b>          | > 535 – 538                                               | DIRM LB7 (OD 7+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | Red                           | > 538 – 540                                               | DIRM LB6 (OD 6+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Material:</b>              | > 541 – 550                                               | DIRM LB5 (OD 5+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | Mineral glass +               | > 550 – 553                                               | DIRM LB4 (OD 4+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | Dielectric                    | > 553 – 555                                               | DIRM LB3 (OD 3+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | coating                       | > 555 – 558                                               | DIRM LB2 (OD 2+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>VLT:</b> 30 % <sup>1</sup> | > 558 – 564                                               | DIRM LB1 (OD 1+)                       |                                                                                                                                                                                                                                                                                                                                                    |
| 0265   | <b>Filter</b>                 | 745 – 817                                                 | DIRM LB1 (OD 1+)                       |  <br>                                                                               |
|        | <b>thickness:</b>             | > 817 – 845                                               | DIRM LB2 (OD 2+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | 4.0 mm <sup>1</sup>           | > 845 – 889                                               | DIRM LB4 (OD 4+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Filter color:</b>          | > 889 – 899                                               | DIRM LB5 (OD 5+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | Light gray                    | > 899 – 924                                               | DIRM LB7 (OD 7+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | > 924 – 939                                               | DIRM LB8 (OD 8+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Material:</b>              | > 939 – 1085                                              | D LB8 + IR LB9 + M LB9 (OD 9+)         |                                                                                                                                                                                                                                                                                                                                                    |
|        | Mineral glass +               | > 1085 – 1100                                             | DIRM LB8 (OD 8+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | Dielectric                    | > 1100 – 1185                                             | DIRM LB7 (OD 7+)                       |                                                                                                                                                                                                                                                                                                                                                    |
|        | coating                       | > 1185 – 1400                                             | DIRM LB6 (OD 6+)                       |                                                                                                                                                                                                                                                                                                                                                    |

<sup>1</sup> Gemessener Wert; kleine Abweichungen möglich | <sup>1</sup> Measured value; small deviation possible; <sup>2</sup> Schutzstufen können in Gestellen leicht variieren | <sup>2</sup> Protection levels can vary slightly in frames; <sup>3</sup> Als Überbrille geeignet | <sup>3</sup> Suitable as over-glasses; Abbildungen ähnlich | pictures similar

\* M-Schutzstufen dieses Gestells zwischen 1400 – 11000 nm befinden sich in der Erweiterung | \* M-protection levels of this frame between 1400 – 11000 nm are in extension

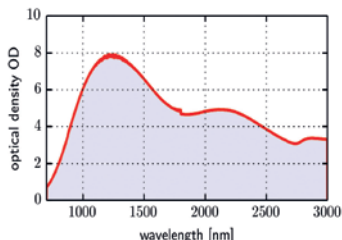
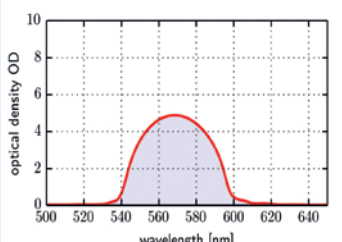
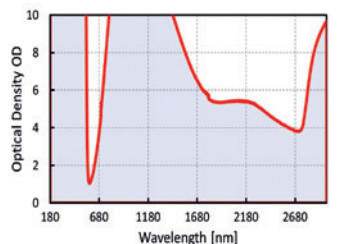


## Mineralglasfilter und dielektrische Schichten | Mineral Glass Filters and Dielectric Coatings

| Filter | Characteristics               | Protection Level of the Filter (EN 207, 208) <sup>2</sup> | OD Diagram                             | Available Frames                                                                                                                                                 |
|--------|-------------------------------|-----------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0266   | <b>Filter</b>                 | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y (OD 10+)      | <br>GLADIATOR <sup>3</sup> *      SPECTOR <sup>3</sup>                        |
|        | <b>thickness:</b>             | > 315 – 520                                               | D LB7 + I LB8 + R LB9 + M LB8Y (OD 9+) |                                                                                                                                                                  |
|        | <b>Filter color:</b>          | > 520 – 532                                               | D LB7 + IR LB8 + M LB8Y (OD 8+)        |                                                                                                                                                                  |
|        | Light brown                   | > 532 – 550                                               | DIRM LB5 (OD 5+)                       |                                                                                                                                                                  |
|        | <b>Material:</b>              | > 550 – 553                                               | DIRM LB4 (OD 4+)                       |                                                                                                                                                                  |
|        | Mineral glass +               | > 553 – 556                                               | DIRM LB3 (OD 3+)                       |                                                                                                                                                                  |
|        | Dielectric                    | > 556 – 560                                               | DIRM LB2 (OD 2+)                       |                                                                                                                                                                  |
|        | coating                       | > 560 – 565                                               | DIRM LB1 (OD 1+)                       |                                                                                                                                                                  |
|        | <b>VLT: 15 % <sup>1</sup></b> | 615 – 647                                                 | DIRM LB1 (OD 1+)                       |                                                                                                                                                                  |
|        |                               | > 647 – 672                                               | DIRM LB2 (OD 2+)                       |                                                                                                                                                                  |
|        |                               | > 672 – 693                                               | DIRM LB3 (OD 3+)                       |                                                                                                                                                                  |
|        |                               | > 693 – 711                                               | DIRM LB4 (OD 4+)                       |                                                                                                                                                                  |
|        |                               | > 711 – 731                                               | DIRM LB5 (OD 5+)                       |                                                                                                                                                                  |
|        |                               | > 731 – 752                                               | DIRM LB6 (OD 6+)                       |                                                                                                                                                                  |
|        |                               | > 752 – 772                                               | DIRM LB7 (OD 7+)                       |                                                                                                                                                                  |
|        |                               | > 772 – 794                                               | DIRM LB8 (OD 8+)                       |                                                                                                                                                                  |
|        |                               | > 794 – 1168                                              | D LB8 + IR LB9 + M LB9Y (OD 9+)        |                                                                                                                                                                  |
|        |                               | > 1168 – 1180                                             | DIRM LB8 (OD 8+)                       |                                                                                                                                                                  |
|        |                               |                                                           | > 1180 – 1195 DIRM LB7 (OD 7+)         |                                                                                                                                                                  |
|        |                               |                                                           | > 1195 – 1200 DIRM LB6 (OD 6+)         |                                                                                                                                                                  |
| 0267   | <b>Filter</b>                 | 614 – 648                                                 | DIRM LB1 (OD 1+)                       | <br>GLADIATOR <sup>3</sup> *      RETRO <sup>*</sup><br>SPECTOR <sup>3</sup> |
|        | <b>thickness:</b>             | > 648 – 673                                               | DIRM LB2 (OD 2+)                       |                                                                                                                                                                  |
|        | 3.8 mm <sup>1</sup>           | > 673 – 696                                               | DIRM LB3 (OD 3+)                       |                                                                                                                                                                  |
|        | <b>Filter color:</b>          | > 696 – 715                                               | DIRM LB4 (OD 4+)                       |                                                                                                                                                                  |
|        | Turquoise                     | > 715 – 735                                               | DIRM LB5 (OD 5+)                       |                                                                                                                                                                  |
|        | <b>Material:</b>              | > 735 – 750                                               | DIRM LB6 (OD 6+)                       |                                                                                                                                                                  |
|        | Mineral glass +               | > 750 – 773                                               | DIRM LB7 (OD 7+)                       |                                                                                                                                                                  |
|        | Dielectric                    | > 773 – 801                                               | DIRM LB8 (OD 8+)                       |                                                                                                                                                                  |
|        | coating                       | > 801 – 1090                                              | D LB8 + IR LB9 + M LB9Y (OD 9+)        |                                                                                                                                                                  |
|        | <b>VLT: 50 % <sup>1</sup></b> | > 1090 – 1104                                             | DIRM LB8 (OD 8+)                       |                                                                                                                                                                  |
|        |                               | > 1104 – 1134                                             | DIRM LB7 (OD 7+)                       |                                                                                                                                                                  |
|        |                               | > 1134 – 1169                                             | DIRM LB6 (OD 6+)                       |                                                                                                                                                                  |
|        |                               | > 1169 – 1200                                             | DIRM LB5 (OD 5+)                       |                                                                                                                                                                  |
|        |                               | 1201 – 1225                                               | DIRM LB5 (OD 5+)                       |                                                                                                                                                                  |
|        |                               | 1226 – 1276                                               | DIRM LB4 (OD 4+)                       |                                                                                                                                                                  |
|        |                               | 1277 – 1360                                               | DIRM LB3 (OD 3+)                       |                                                                                                                                                                  |
|        |                               | 1361 – 1400                                               | DIRM LB2 (OD 2+)                       |                                                                                                                                                                  |
|        |                               | 2850 – 9000                                               | DI LB4 + R LB3Y (OD 4+)                |                                                                                                                                                                  |
|        |                               | 9000 – 11000                                              | D LB4 + I LB5 + R LB3Y (OD 5+)         |                                                                                                                                                                  |
| 0268   | <b>Filter</b>                 | 615 – 647                                                 | DIRM LB1 (OD 1+)                       | <br>STARLIGHT – Extra <sup>3</sup>                                          |
|        | <b>thickness:</b>             | > 647 – 672                                               | DIRM LB2 (OD 2+)                       |                                                                                                                                                                  |
|        | 2.3 mm <sup>1</sup>           | > 672 – 693                                               | DIRM LB3 (OD 3+)                       |                                                                                                                                                                  |
|        | <b>Filter color:</b>          | > 693 – 712                                               | DIRM LB4 (OD 4+)                       |                                                                                                                                                                  |
|        | Blue                          | > 712 – 732                                               | DIRM LB5 (OD 5+)                       |                                                                                                                                                                  |
|        | <b>Material:</b>              | > 732 – 752                                               | DIRM LB6 (OD 6+)                       |                                                                                                                                                                  |
|        | Mineral glass                 | > 752 – 773                                               | DIRM LB7 (OD 7+)                       |                                                                                                                                                                  |
|        | <b>VLT: 52 % <sup>1</sup></b> | > 773 – 796                                               | D LB7 + IRM LB8 (OD 8+)                |                                                                                                                                                                  |
|        |                               | > 796 – 1025                                              | D LB7 + IRM LB9 (OD 9+)                |                                                                                                                                                                  |
|        |                               | > 1025 – 1074                                             | D LB7 + IRM LB8 (OD 8+)                |                                                                                                                                                                  |
|        |                               | > 1074 – 1124                                             | DIRM LB6 (OD 6+)                       |                                                                                                                                                                  |
|        |                               | > 1124 – 1200                                             | DIRM LB5 (OD 5+)                       |                                                                                                                                                                  |
|        |                               | 1201 – 1312                                               | DIRM LB4 (OD 4+)                       |                                                                                                                                                                  |
|        |                               | 1313 – 1392                                               | DIRM LB3 (OD 3+)                       |                                                                                                                                                                  |
|        |                               | 1393 – 1400                                               | DIRM LB2 (OD 2+)                       |                                                                                                                                                                  |
|        |                               | 2900 – 9000                                               | DI LB4 + R LB3Y (OD 4+)                |                                                                                                                                                                  |
|        |                               | > 9000 – 11000                                            | D LB4 + I LB5 + R LB3Y (OD 5+)         |                                                                                                                                                                  |
|        |                               |                                                           | PF CE                                  |                                                                                                                                                                  |
|        |                               |                                                           |                                        |                                                                                                                                                                  |



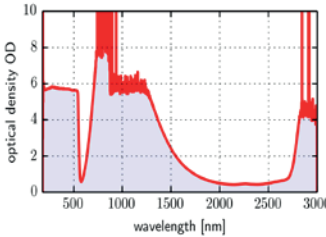
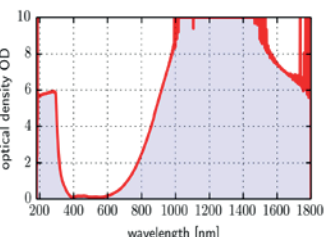
## Mineralglasfilter und dielektrische Schichten | Mineral Glass Filters and Dielectric Coatings

| Filter | Characteristics                                 | Protection Level of the Filter (EN 207, 208) <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                           | OD Diagram                                                                                                                                                 | Available Frames                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                               |                                                                                                                   |
|--------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 0269   | <b>Filter thickness:</b><br>3.0 mm <sup>1</sup> | 752 – 821 DIRM LB1<br>> 821 – 877 DIRM LB2<br>> 877 – 925 DIRM LB3<br>> 925 – 955 DIRM LB4<br>> 955 – 1046 DIRM LB5<br>> 1046 – 1370 DI LB6 + RM LB6Y<br>> 1370 – 1400 DIRM LB5<br>> 1400 – 2384 DI LB4 + R LB3Y + M LB4Y<br>> 2384 – 2661 DI LB3 + R LB3Y + M LB3<br>> 2661 – 3000 DIRM LB2<br>> 3000 – 3299 DI LB3 + R LB3Y + M LB3<br>> 3299 – 3861 DIRM LB2<br>> 3861 – 9000 DI LB3 + R LB3Y + M LB3<br>> 9000 – 11000 D LB4 + I LB5 + R LB3Y + M LB4Y<br>PF CE | (OD 1+)<br>(OD 2+)<br>(OD 3+)<br>(OD 4+)<br>(OD 5+)<br>(OD 6+)<br>(OD 5+)<br>(OD 4+)<br>(OD 3+)<br>(OD 2+)<br>(OD 3+)<br>(OD 2+)<br>(OD 3+)<br>(OD 5+)     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <br>GLADIATOR <sup>3</sup> *<br><br>OVERSPEC II <sup>3</sup> *<br><br>RETRO *<br><br>SPECTOR <sup>3</sup><br><br>STARLIGHT – Extra <sup>3</sup> |                                                                                                               |                                                                                                                   |
|        | 0270                                            | <b>Filter thickness:</b><br>2.0 mm <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                     | 559 – <562 DI LB1<br>562 – <566 DI LB2<br>566 – <572 DI LB3<br>572 – 583 DI LB4<br>> 583 – 590 DI LB3<br>> 590 – 594 DI LB2<br>> 594 – 597 DI LB1<br>PF CE | (OD 1+)<br>(OD 2+)<br>(OD 3+)<br>(OD 4+)<br>(OD 3+)<br>(OD 2+)<br>(OD 1+)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <br>STARLIGHT <sup>3</sup> |                                                                                                                   |
|        |                                                 | 0330                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Filter thickness:</b><br>11 mm <sup>1</sup>                                                                                                             | 180 – 315 D LB10 + IR LB5 + M LB6Y<br>> 315 – 532 D LB7 + IR LB8 + M LB8Y<br>> 532 – 553 DIRM LB4<br>> 553 – 555 DIRM LB3<br>> 555 – 558 DIRM LB2<br>> 558 – 564 DIRM LB1<br>615 – 647 DIRM LB1<br>> 647 – 672 DIRM LB2<br>> 672 – 693 DIRM LB3<br>> 693 – 712 DIRM LB4<br>> 712 – 732 DIRM LB5<br>> 732 – 752 DIRM LB6<br>> 752 – 773 DIR LB7 + M LB7Y<br>> 773 – 796 D LB7 + IR LB8 + M LB7Y<br>> 796 – 905 D LB7 + IR LB9 + M LB7Y<br>> 905 – 1025 D LB8 + IR LB9 + M LB8Y<br>> 1025 – 1084 D LB8 + IR LB9 + M LB9Y<br>> 1084 – 1094 DIRM LB8<br>> 1094 – 1100 DIRM LB7<br>> 1100 – 1400 DIRM LB6<br>> 1400 – 2030 DI LB5 + R LB3Y + M LB5Y<br>> 2030 – 2587 DI LB3 + R LB3Y + M LB4Y<br>> 2587 – 2713 DI LB2 + R LB2 + M LB2<br>> 2713 – 2772 DI LB3 + R LB3Y + M LB3<br>> 2772 – 9000 DI LB4 + R LB3Y + M LB4Y<br>> 9000 – 11000 DI LB5 + R LB3Y + M LB5Y<br>PF CE | (OD 10+)<br>(OD 8+)<br>(OD 4+)<br>(OD 3+)<br>(OD 2+)<br>(OD 1+)<br>(OD 1+)<br>(OD 2+)<br>(OD 3+)<br>(OD 4+)<br>(OD 5+)<br>(OD 6+)<br>(OD 7+)<br>(OD 8+)<br>(OD 9+)<br>(OD 9+)<br>(OD 9+)<br>(OD 8+)<br>(OD 7+)<br>(OD 6+)<br>(OD 5+)<br>(OD 4+)<br>(OD 2+)<br>(OD 3+)<br>(OD 4+)<br>(OD 5+)                                                                                                                                                                                                                                                                                    |                           | <br>GLADIATOR <sup>3</sup> * |

<sup>1</sup> Gemessener Wert; kleine Abweichungen möglich | <sup>1</sup> Measured value; small deviation possible; <sup>2</sup> Schutzstufen können in Gestellen leicht variieren | <sup>2</sup> Protection levels can vary slightly in frames; <sup>3</sup> Als Überbrille geeignet | <sup>3</sup> Suitable as over-glasses; Abbildungen ähnlich | pictures similar

\* M-Schutzstufen dieses Gestells zwischen 1400 – 11000 nm befinden sich in der Erweiterung | \* M-protection levels of this frame between 1400 - 11000 nm are in extension

## Mineralglasfilter und dielektrische Schichten | Mineral Glass Filters and Dielectric Coatings

| Filter | Characteristics                                           | Expected Protection Level of the Filter (EN 207, 208) <sup>2</sup>                                                                                        | OD Diagram                                                                           | Available Frames                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0359   | <b>Filter</b><br><b>thickness:</b><br>7.2 mm <sup>1</sup> | 180 – 315 D LB10 + IR LB5 + M LB6Y (OD 10+)<br>> 315 – 532 D LB7 + IRM LB9 (OD 9+)<br>> 532 – 535 D LB7 + IRM LB8 (OD 8+)<br>> 535 – 538 DIRM LB7 (OD 7+) |    | <br>GLADIATOR <sup>3*</sup><br><br>SPECTOR <sup>3</sup><br><br>OVERSPEC II <sup>3*</sup>                                                                                                                      |
|        | <b>Filter color:</b><br>brown                             | > 538 – 540 DIRM LB6 (OD 6+)<br>> 541 – 550 DIRM LB5 (OD 5+)                                                                                              |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | <b>Material:</b><br>Mineral glass                         | > 550 – 553 DIRM LB4 (OD 4+)<br>> 553 – 555 DIRM LB3 (OD 3+)                                                                                              |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | <b>VLT:</b> 20%                                           | > 555 – 558 DIRM LB2 (OD 2+)<br>> 558 – 564 DIRM LB1 (OD 1+)                                                                                              |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | 610 – 645 DIRM LB1 (OD 1+)<br>> 645 – 663 DIRM LB2 (OD 2+)                                                                                                |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | > 663 – 682 DIRM LB3 (OD 3+)<br>> 682 – 700 DIRM LB4 (OD 4+)                                                                                              |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | > 700 – 715 DIRM LB5 (OD 5+)<br>> 715 – 735 DIRM LB6 (OD 6+)                                                                                              |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | > 735 – 750 DIRM LB7 (OD 7+)<br>> 750 – 765 D LB7 + IRM LB8 (OD 8+)                                                                                       |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | > 765 – 782 D LB7 + IRM LB9 (OD 9+)<br>> 782 – 1065 D LB7 + IR LB9 + M LB10 (OD 10+)                                                                      |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | > 1065 – 1110 D LB7 + IRM LB9 (OD 9+)<br>> 1110 – 1150 D LB7 + IRM LB8 (OD 8+)                                                                            |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | > 1150 – 1200 DIRM LB7 (OD 7+)<br>> 1200 – 1250 DIRM LB6 (OD 6+)                                                                                          |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | > 1250 – 1310 DIRM LB5 (OD 5+)<br>> 1310 – 1375 DIRM LB4 (OD 4+)                                                                                          |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | > 1375 – 1400 DIRM LB3 (OD 3+)<br>> 1400 – 1440 DI LB3 + R LB3Y (OD 3+)                                                                                   |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | > 1440 – 1545 DIR LB2 (OD 2+)<br>> 1545 – 1720 DIR LB1 (OD 1+)                                                                                            |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | 2850 – 9000 DI LB4 + R LB3Y (OD 4+)<br>> 9000 – 11500 DI LB5 + R LB2 (OD 3+)                                                                              |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | PF CE                                                                                                                                                     |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | Dieser Filter befindet sich in der Zertifizierung.<br>This filter is currently in certification process.                                                  |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 0360   | <b>Filter</b><br><b>thickness:</b><br>5.9 mm <sup>1</sup> | 730 – 785 DIRM LB1 (OD 1+)<br>> 782 – 825 DIRM LB2 (OD 2+)                                                                                                |  | <br>GLADIATOR <sup>3*</sup><br><br>OVERSPEC II <sup>3*</sup><br><br>RETRO <sup>*</sup><br><br>SPECTOR <sup>3</sup> |
|        | <b>Filter color:</b><br>light grey                        | > 825 – 862 DIRM LB3 (OD 3+)<br>> 862 – 890 DIRM LB4 (OD 4+)                                                                                              |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | <b>Material:</b><br>Mineral glass                         | > 890 – 915 DIRM LB5 (OD 5+)<br>> 915 – 939 DIRM LB6 (OD 6+)                                                                                              |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | <b>VLT:</b> 70 % <sup>1</sup>                             | > 939 – 979 DIRM LB6 (OD 6+)<br>> 979 – 1019 D LB7 + IRM LB8 (OD 8+)                                                                                      |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | > 1019 – 1400 D LB7 + IRM LB9 (OD 9+)<br>> 1400 – 3000 D LB5 + I LB5 + R LB3Y + M LB5Y (OD 5+)                                                            |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | > 3000 – 9000 D LB5 + I LB5 + R LB3Y + M LB5Y (OD 5+)<br>> 9000 – 11500 DI LB5 + R LB3Y + M LB5Y (OD 5+)                                                  |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | PF CE                                                                                                                                                     |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           | Dieser Filter befindet sich in der Zertifizierung.<br>This filter is currently in certification process.                                                  |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           |                                                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           |                                                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           |                                                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           |                                                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        |                                                           |                                                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

# Kunststofffilter | Special Plastic Filters

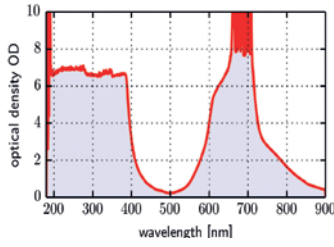
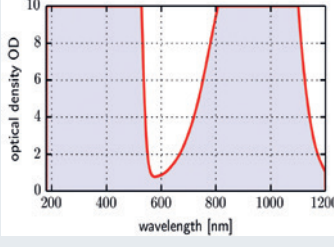
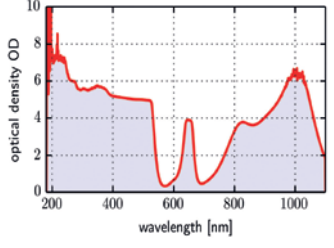
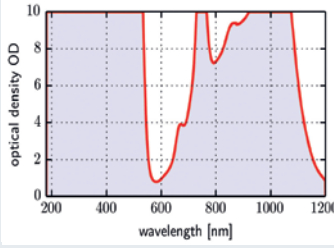
| Filter | Characteristics                                           | Protection Level of the Filter (EN 207, 208) <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                          | OD Diagram                    | Available Frames                   |
|--------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------|
| 0156   | <b>Filter</b><br><b>thickness:</b><br>1.5 mm <sup>1</sup> | 0.01 W 2*E-6J 400 – 700 RB1<br>PF CE                                                                                                                                                                                                                                                                                                                                                                                               |                               | GLADIATOR <sup>3</sup> *           |
|        | <b>Filter color:</b><br>Gray                              |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               | OVERSPEC II <sup>3</sup> *         |
|        | <b>Material:</b><br>Special plastic                       |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               | SPECTOR <sup>3</sup>               |
|        | <b>VLT:</b> 3.5 % <sup>1</sup>                            |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               | STARLIGHT <sup>3</sup>             |
| 0195   | <b>Filter</b><br><b>thickness:</b><br>3.0 mm <sup>1</sup> | 600 – 630 D LB1<br>> 630 – 700 D LB2<br>> 700 – 720 D LB1<br>0.1 W 2*E-5J 630 – 700 RB2<br>PF S CE                                                                                                                                                                                                                                                                                                                                 |                               | GLADIATOR <sup>3</sup> *           |
|        | <b>Filter color:</b><br>Green                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               | OVERSPEC II <sup>3</sup> *         |
|        | <b>Material:</b><br>Special plastic                       |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               | SPECTOR <sup>3</sup>               |
|        | <b>VLT:</b> 25 % <sup>1</sup>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               | STARLIGHT <sup>3</sup>             |
| 0201   | <b>Filter</b><br><b>thickness:</b><br>5.5 mm <sup>1</sup> | 740 – 755 DIR LB1 + M LB1Y<br>> 755 – 785 DIR LB2 + M LB2Y<br>> 785 – 807 DIR LB3 + M LB3Y<br>> 807 – 830 DIR LB4 + M LB4Y<br>> 830 – 860 DIR LB5 + M LB5Y<br>> 860 – 880 DIR LB6 + M LB5Y<br>> 880 – 900 D LB6 + IR LB7 + M LB5Y<br>> 900 – 1065 DR LB7 + I LB8 + M LB8Y<br>> 1065 – 1070 DIR LB6 + M LB6Y<br>> 1070 – 1080 DIR LB4 + M LB4Y<br>> 1080 – 1100 DIR LB3 + M LB3Y<br>PF S CE                                         |                               | GLADIATOR <sup>3</sup> *           |
|        | <b>Filter color:</b><br>Green                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               | SPECTOR <sup>3</sup>               |
|        | <b>Material:</b><br>Special plastic                       |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |                                    |
|        | <b>VLT:</b> 60 % <sup>1</sup>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |                                    |
| 0206   | <b>Filter</b><br><b>thickness:</b><br>3.5 mm <sup>1</sup> | 315 – 450 D LB5 + IR LB6<br>> 450 – 465 DIR LB5<br>> 465 – 475 DIR LB4<br>> 475 – 480 DIR LB3<br>> 480 – 490 DIR LB2<br>> 490 – 500 DIR LB1<br>620 – 720 DIR LB1<br>> 720 – 760 DIR LB2<br>> 760 – 795 DIR LB3<br>> 795 – 820 DIR LB4<br>> 820 – 840 DIR LB5<br>> 840 – 860 DIR LB6<br>> 860 – 900 D LB6 + IR LB7<br>> 900 – 1100 D LB6 + IR LB8<br>> 1100 – 1125 D LB6 + IR LB7<br>> 1125 – 1165 DIR LB6<br>> 1165 – 1400 DIR LB5 |                               | GLADIATOR <sup>3</sup> *           |
|        | <b>Filter color:</b><br>Green                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               | OVERSPEC II <sup>3</sup> *         |
|        | <b>Material:</b><br>Special plastic                       |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               | RETRO <sup>*</sup>                 |
|        | <b>VLT:</b> 20 % <sup>1</sup>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               | SPECTOR <sup>3</sup>               |
|        |                                                           | > 1400 – 1800 DI LB3 + M LB1<br>> 2250 – 2450 DI LB3 + M LB1<br>> 2750 – 3000 DI LB3 + M LB1<br>PF CE                                                                                                                                                                                                                                                                                                                              | (OD 3+)<br>(OD 3+)<br>(OD 3+) | STARLIGHT – Extra <sup>3</sup>     |
|        |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               | UNIVERSAL<br>also coated available |

<sup>1</sup> Gemessener Wert; kleine Abweichungen möglich | <sup>1</sup> Measured value; small deviation possible; <sup>2</sup> Schutzstufen können in Gestellen leicht variieren | <sup>2</sup> Protection levels can vary slightly in frames; <sup>3</sup> Als Überbrille geeignet | <sup>3</sup> Suitable as over-glasses; Abbildungen ähnlich | pictures similar

\* M-Schutzstufen dieses Gestells zwischen 1400 – 11000 nm befinden sich in der Erweiterung | \* M-protection levels of this frame between 1400 - 11000 nm are in extension



## Kunststofffilter | Special Plastic Filters

| Filter | Characteristics                                                                                                                                                          | Protection Level of the Filter (EN 207, 208) <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                | OD Diagram                                                                                                                                                                                                                                                                                                                            | Available Frames                                                                                                                                                                                                                                                                                                                                                                                  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0235   | <b>Filter</b><br><b>thickness:</b><br>2.0 mm <sup>1</sup><br><b>Filter color:</b><br>Blue-green<br><b>Material:</b><br>Special plastic<br><b>VLT:</b> 20 % <sup>1</sup>  | 180–315 D LB7 + IR LB4<br>> 315–385 DIR LB6<br>560–580 DIR LB1<br>> 580–595 DIR LB2<br>> 595–605 DIR LB3<br>> 605–615 DIR LB4<br>> 615–640 DIR LB5<br>> 640–660 DIR LB6<br>> 660–705 D LB6 + IR LB7<br>> 705–710 DIR LB6<br>> 710–715 DIR LB5<br>> 715–720 DIR LB4<br>> 720–730 DIR LB3                                                                                                                                                                                                                  | (OD 7+)<br>(OD 6+)<br>(OD 1+)<br>(OD 2+)<br>(OD 3+)<br>(OD 4+)<br>(OD 5+)<br>(OD 6+)<br>(OD 6+)<br>(OD 7+)<br>(OD 6+)<br>(OD 5+)<br>(OD 4+)<br>(OD 3+)                                                                                                                                                                                | <br>COMBOR<br><br>CONVEX<br><br>OVERCOR<br><br>RONDOR |
|        |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <br>> 730–770 DIR LB2 (OD 2+)<br>> 770–820 DIR LB1 (OD 1+)<br>PF CE                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                   |
| 0244   | <b>Filter</b><br><b>thickness:</b><br>2.0 mm <sup>1</sup><br><b>Filter color:</b><br>Brown<br><b>Material:</b><br>Special plastic<br><b>VLT:</b> 10 % <sup>1</sup>       | 180–315 D LB10 + IR LB5 + M LB6Y<br>> 315–532 D LB6 + IR LB8 + M LB7Y<br>> 532–534 DIRM LB6<br>535 DIRM LB5<br>> 535–538 DIRM LB4<br>> 538–544 DIRM LB3<br>> 544–546 DIRM LB2<br>> 546–554 DIRM LB1<br>647–691 DIRM LB1<br>> 691–721 DIRM LB2<br>> 721–744 DIRM LB3<br>> 744–765 DIRM LB4<br>> 765–786 DIRM LB5<br>> 786–<800 DIRM LB6<br>800–1068 DM LB6 + IR LB7<br>900–1020 D LB6 + IR LB8 + M LB7Y<br>> 1020–1068 D LB6 + IR LB9 + M LB7Y<br>> 1068–1106 DIRM LB6                                    | (OD 10+)<br>(OD 8+)<br>(OD 6+)<br>(OD 5+)<br>(OD 4+)<br>(OD 3+)<br>(OD 2+)<br>(OD 1+)<br>(OD 1+)<br>(OD 2+)<br>(OD 3+)<br>(OD 4+)<br>(OD 5+)<br>(OD 6+)<br>(OD 7+)<br>(OD 8+)<br>(OD 9+)<br>(OD 6+)                                                                                                                                   | <br>COMBOR<br><br>CONVEX<br><br>OVERCOR<br><br>RONDOR |
|        |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <br>> 1106–1114 DIRM LB5 (OD 5+)<br>> 1114–1124 DIRM LB4 (OD 4+)<br>> 1124–1137 DIRM LB3 (OD 3+)<br>> 1137–1153 DIRM LB2 (OD 2+)<br>> 1153–1184 DIRM LB1 (OD 1+)<br>9000–11000 DI LB3 (OD 3+)<br>PF CE                                              |                                                                                                                                                                                                                                                                                                                                                                                                   |
| 0249   | <b>Filter</b><br><b>thickness:</b><br>2.0 mm <sup>1</sup><br><b>Filter color:</b><br>Light-brown<br><b>Material:</b><br>Special plastic<br><b>VLT:</b> 18 % <sup>1</sup> | 180–315 D LB8 + IR LB4<br>> 315–532 DIR LB4 + M LB4Y<br>> 532–535 DIRM LB3<br>> 535–542 DIRM LB2<br>> 542–552 DIRM LB1<br>605–629 DIRM LB1<br>> 629–635 DIRM LB2<br>> 635–660 DIRM LB3<br>800–928 DIRM LB3<br>> 928–1038 DIR LB3 + M LB4Y<br>> 1038–1070 DIRM LB3                                                                                                                                                                                                                                        | (OD 8+)<br>(OD 4+)<br>(OD 3+)<br>(OD 2+)<br>(OD 1+)<br>(OD 1+)<br>(OD 2+)<br>(OD 3+)<br>(OD 3+)<br>(OD 3+)<br>(OD 4+)<br>(OD 3+)                                                                                                                                                                                                      | <br>ONTOR <sup>3</sup><br><br>TERMINATOR                                                                                                                                                                                |
|        |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <br>10 W 2x10E-3J 532 RB4<br>0.1 W 2x10E-5J 630–635 RB2<br>1 W 2x10E-4J 636–662 RB3<br>0.1 W 2x10E-5J 663–666 RB2<br>PF S CE                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                   |
| 0273   | <b>Filter</b><br><b>thickness:</b><br>2.0 mm <sup>1</sup><br><b>Filter color:</b><br>brown<br><b>Material:</b><br>Special plastic<br><b>VLT:</b> 15 % <sup>1</sup>       | 180–315 D LB10 + IR LB5 + M LB6Y<br>> 315–532 D LB6 + IR LB8 + M LB9<br>533–538 DIRM LB5<br>539–542 DIRM LB4<br>543–545 DIRM LB3<br>546–550 DIRM LB2<br>551–558 DIRM LB1<br>622–648 DIRM LB1<br>649–660 DIRM LB2<br>661–696 DIRM LB3<br>697–711 DIRM LB4<br>712–719 DIRM LB5<br>720–722 DIRM LB6<br>723–734 D LB6 + IR LB7 + M LB7Y<br>735–770 D LB6 + IR LB8 + M LB7Y<br>771–815 DIRM LB6<br>816–825 D LB6 + IRM LB7<br>826–839 D LB6 + IRM LB8<br>840–1080 D LB6 + IRM LB8<br>950–1065 D LB6 + IRM LB9 | (OD 10+)<br>(OD 9+)<br>(OD 5+)<br>(OD 4+)<br>(OD 3+)<br>(OD 2+)<br>(OD 1+)<br>(OD 1+)<br>(OD 2+)<br>(OD 3+)<br>(OD 4+)<br>(OD 5+)<br>(OD 6+)<br>(OD 7+)<br>(OD 8+)<br>(OD 6+)<br>(OD 7+)<br>(OD 8+)<br>(OD 8+)<br>(OD 9+)                                                                                                             | <br>ONTOR <sup>3</sup>                                                                                                                                                                                                                                                                                       |
|        |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <br>1099–1109 DIRM LB4 (OD 4+)<br>1110–1123 DIRM LB3 (OD 3+)<br>1124–1141 DIRM LB2 (OD 2+)<br>1142–1170 DIRM LB1 (OD 1+)<br>4785–5040 DI LB4 + R LB3Y (OD 4+)<br>5041–5150 DI LB3 + R LB3Y (OD 3+)<br>5151–11500 DI LB4 + R LB3Y (OD 4+)<br>PF CE |                                                                                                                                                                                                                                                                                                                                                                                                   |

# Kunststofffilter | Special Plastic Filters

| Filter | Characteristics               | Protection Level of the Filter (EN 207, 208) <sup>2</sup> | OD Diagram                        | Available Frames                                                                                                                                     |
|--------|-------------------------------|-----------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0275   | <b>Filter</b>                 | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y (OD 10+) | <br>ONTOR <sup>3</sup> TERMINATOR                                 |
|        | <b>thickness:</b>             | > 315 – 380                                               | D LB6 + IR LB8 + M LB7 (OD 8+)    |                                                                                                                                                      |
|        | 2.0 mm <sup>1</sup>           | > 380 – 436                                               | DIRM LB6 (OD 6+)                  |                                                                                                                                                      |
|        | <b>Filter color:</b>          | 437 – 448                                                 | DIRM LB4 (OD 4+)                  |                                                                                                                                                      |
|        | Green                         | 449 – 462                                                 | DIRM LB2 (OD 2+)                  |                                                                                                                                                      |
|        |                               | 463 – 489                                                 | DIRM LB1 (OD 1+)                  |                                                                                                                                                      |
|        | <b>Material:</b>              | 624 – 650                                                 | DIRM LB1 (OD 1+)                  |                                                                                                                                                      |
|        | Special plastic               | 651 – 699                                                 | DIRM LB2 (OD 2+)                  |                                                                                                                                                      |
|        | <b>VLT: 30 % <sup>1</sup></b> | 700 – 719                                                 | DIRM LB4 (OD 4+)                  |                                                                                                                                                      |
|        |                               | 720 – 722                                                 | DIRM LB6 (OD 6+)                  |                                                                                                                                                      |
|        |                               | 723 – 729                                                 | D LB6 + IRM LB8 (OD 8+)           |                                                                                                                                                      |
|        |                               | 730 – 765                                                 | D LB6 + IRM LB9 (OD 9+)           |                                                                                                                                                      |
|        |                               | > 765 – 769                                               | D LB6 + IRM LB8 (OD 8+)           |                                                                                                                                                      |
|        |                               | > 769 – 820                                               | DIRM LB5 (OD 5+)                  |                                                                                                                                                      |
|        |                               | > 820 – 920                                               | DIRM LB6 (OD 6+)                  |                                                                                                                                                      |
|        |                               | > 920 – 1065                                              | D LB6 + IRM LB9 (OD 9+)           |                                                                                                                                                      |
|        |                               | 910 – 1075                                                | D LB6 + IRM LB8 (OD 8+)           |                                                                                                                                                      |
|        |                               | 1076 – 1085                                               | DIRM LB6 (OD 6+)                  |                                                                                                                                                      |
|        |                               | 1086 – 1106                                               | DIRM LB4 (OD 4+)                  |                                                                                                                                                      |
|        |                               | 1107 – 1138                                               | DIRM LB2 (OD 2+)                  |                                                                                                                                                      |
|        |                               | 1139 – 1167                                               | DIRM LB1 (OD 1+)                  |                                                                                                                                                      |
|        |                               | 5165 – 11500                                              | DI LB4 + R LB3Y (OD 4+)           |                                                                                                                                                      |
|        |                               | PF CE                                                     |                                   |                                                                                                                                                      |
| 0276   | <b>Filter</b>                 | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y (OD 10+) | <br>ONTOR <sup>3</sup> TERMINATOR                               |
|        | <b>thickness:</b>             | > 380 – 420                                               | D LB5 + IRM LB6 (OD 6+)           |                                                                                                                                                      |
|        | 2.0 mm <sup>1</sup>           | > 420 – 429                                               | DIRM LB5 (OD 5+)                  |                                                                                                                                                      |
|        | <b>Filter color:</b>          | > 429 – 441                                               | DIRM LB4 (OD 4+)                  |                                                                                                                                                      |
|        | Green                         | > 441 – 450                                               | DIRM LB3 (OD 3+)                  |                                                                                                                                                      |
|        |                               | > 450 – 458                                               | DIRM LB2 (OD 2+)                  |                                                                                                                                                      |
|        | <b>Material:</b>              | > 458 – 460                                               | DIRM LB1 (OD 1+)                  |                                                                                                                                                      |
|        | Special plastic               | 663 – 705                                                 | DIRM LB1 (OD 1+)                  |                                                                                                                                                      |
|        | <b>VLT: 46 % <sup>1</sup></b> | > 705 – 715                                               | DIRM LB2 (OD 2+)                  |                                                                                                                                                      |
|        |                               | > 715 – 721                                               | DIRM LB3 (OD 3+)                  |                                                                                                                                                      |
|        |                               | > 721 – 741                                               | DIRM LB4 (OD 4+)                  |                                                                                                                                                      |
|        |                               | > 741 – 753                                               | DIRM LB3 (OD 3+)                  |                                                                                                                                                      |
|        |                               | > 753 – 769                                               | DIRM LB4 (OD 4+)                  |                                                                                                                                                      |
|        |                               | > 769 – 793                                               | DIRM LB5 (OD 5+)                  |                                                                                                                                                      |
|        |                               | > 793 – 799                                               | D LB5 + IRM LB6 (OD 6+)           |                                                                                                                                                      |
|        |                               | 800 – 835                                                 | D LB5 + IR LB7Y + M LB8Y (OD 8+)  |                                                                                                                                                      |
|        |                               | > 835 – 840                                               | D LB5 + IR LB7Y + M LB7 (OD 7+)   |                                                                                                                                                      |
|        |                               | > 840 – 842                                               | D LB5 + IRM LB6 (OD 6+)           |                                                                                                                                                      |
|        |                               | > 842 – 849                                               | DIRM LB5 (OD 5+)                  |                                                                                                                                                      |
|        |                               | > 849 – 910                                               | DIRM LB4 (OD 4+)                  |                                                                                                                                                      |
|        |                               | > 910 – 949                                               | DIRM LB5 (OD 5+)                  |                                                                                                                                                      |
|        |                               | 950 – 1064                                                | D LB5 + IRM LB6 (OD 6+)           |                                                                                                                                                      |
|        |                               | 970 – 1050                                                | D LB5 + IR LB7Y + M LB7 (OD 7+)   |                                                                                                                                                      |
|        |                               | > 1064 – 1066                                             | DIRM LB5 (OD 5+)                  |                                                                                                                                                      |
| 0277   | <b>Filter</b>                 | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y (OD 10+) | <br>COMBOR      ONTOR <sup>3</sup><br>TERMINATOR      OPTIMATOR |
|        | <b>thickness:</b>             | > 315 – 532                                               | D LB6 + IRM LB8 (OD 8+)           |                                                                                                                                                      |
|        | 2.0 mm <sup>1</sup>           | > 532 – 534                                               | D LB6 + IRM LB7 (OD 7+)           |                                                                                                                                                      |
|        | <b>Filter color:</b>          | > 534 – 536                                               | DIRM LB6 (OD 6+)                  |                                                                                                                                                      |
|        | Orange                        | > 536 – 538                                               | DIRM LB5 (OD 5+)                  |                                                                                                                                                      |
|        |                               | > 538 – 540                                               | DIRM LB4 (OD 4+)                  |                                                                                                                                                      |
|        | <b>Material:</b>              | > 540 – 542                                               | DIRM LB3 (OD 3+)                  |                                                                                                                                                      |
|        | Special plastic               | > 542 – 544                                               | DIRM LB2 (OD 2+)                  |                                                                                                                                                      |
|        | <b>VLT: 42 % <sup>1</sup></b> | > 544 – 548                                               | DIRM LB1 (OD 1+)                  |                                                                                                                                                      |
|        |                               | > 4000 – 4760                                             | DIR LB2 (OD 2+)                   |                                                                                                                                                      |
|        |                               | > 4760 – 5170                                             | DI LB3 + R LB3Y (OD 3+)           |                                                                                                                                                      |
|        |                               | > 5170 – 11500                                            | DI LB4 + R LB3Y (OD 4+)           |                                                                                                                                                      |
|        |                               | PF CE                                                     |                                   |                                                                                                                                                      |

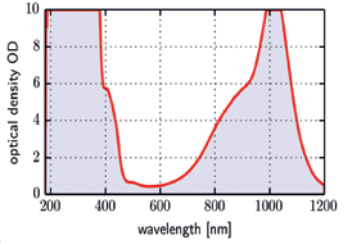
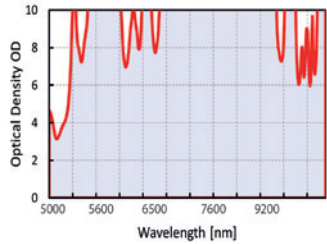
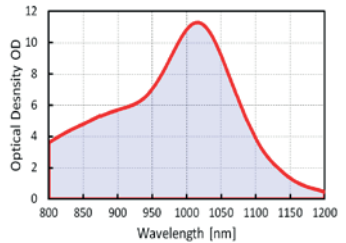
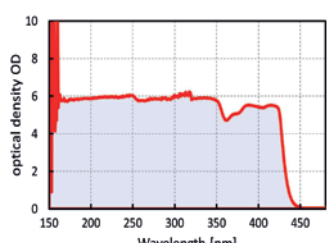
<sup>1</sup> Gemessener Wert; kleine Abweichungen möglich | <sup>1</sup> Measured value; small deviation possible; <sup>2</sup> Schutzstufen können in Gestellen leicht variieren | <sup>2</sup> Protection levels can vary slightly in frames; <sup>3</sup> Als Überbrille geeignet | <sup>3</sup> Suitable as over-glasses; Abbildungen ähnlich | pictures similar

\* M-Schutzstufen dieses Gestells zwischen 1400 – 11000 nm befinden sich in der Erweiterung | \* M-protection levels of this frame between 1400 – 11000 nm are in extension

## Kunststofffilter | Special Plastic Filters

| Filter | Characteristics               | Protection Level of the Filter (EN 207, 208) <sup>2</sup> | OD Diagram                        | Available Frames                                                                                                                                                                                                                                                                                                                                                                                  |
|--------|-------------------------------|-----------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0278   | <b>Filter</b>                 | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y (OD 10+) |  COMBOR  ONTOR <sup>3</sup><br> TERMINATOR  OPTIMATOR |
|        | <b>thickness:</b>             | > 315 – 532                                               | D LB6 + IR LB8 + M LB10 (OD 10+)  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 533 – 534                                                 | D LB6 + IR LB7 (OD 7+)            |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | <b>Filter color:</b>          | > 534 – 536                                               | DIR LB6 (OD 6+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | > 536 – 538                                               | DIR LB5 (OD 5+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | > 538 – 541                                               | DIR LB4 (OD 4+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | <b>Material:</b>              | > 541 – 544                                               | DIR LB3 (OD 3+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | > 544 – 548                                               | DIR LB2 (OD 2+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | <b>VLT:</b> 30 % <sup>1</sup> | > 548 – 554                                               | DIR LB1 (OD 1+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 682 – 727                                                 | DIR LB1 (OD 1+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | > 727 – 759                                               | DIR LB2 (OD 2+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | > 759 – 785                                               | DIR LB3 (OD 3+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | > 785 – 799                                               | DIR LB4 (OD 4+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 800 – 819                                                 | DIR LB4 (OD 4+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | > 819 – 851                                               | DIR LB5 (OD 5+)                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | > 851 – 882                                               | D LB6 + IRM LB7 (OD 7+)           |                                                                                                                                                                                                                                                                                                                                                                                                   |
| 0279   | <b>Filter</b>                 | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y (OD 10+) |  ONTOR <sup>3</sup>                                                                                                                                                                                                                                                                                           |
|        | <b>thickness:</b>             | > 315 – 380                                               | DI LB6 + RM LB6Y (OD 6+)          |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 955 – 966                                                 | DIRM LB3 (OD 3+)                  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | <b>Filter color:</b>          | 967 – 1070                                                | DIRM LB5 (OD 5+)                  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 980 – 1064                                                | DI LB6 + RM LB6Y (OD 6+)          |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | <b>Material:</b>              | 5160 – 11500                                              | DI LB4 + R LB3Y (OD 4+)           |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | PF CE                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | <b>VLT:</b> 40 % <sup>1</sup> |                                                           |                                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               |                                                           |                                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               |                                                           |                                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
| 0280   | <b>Filter</b>                 | 2750 – 3000                                               | DI LB3 + R LB3Y (OD 3+)           |  ONTOR <sup>3</sup>                                                                                                                                                                                                                                                                                          |
|        | <b>thickness:</b>             | 5588 – 11500                                              | DI LB3 + R LB3Y (OD 3+)           |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | PF CE                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | <b>VLT:</b> 93 % <sup>1</sup> |                                                           |                                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
| 0281   | <b>Filter</b>                 | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y (OD 10+) |  ONTOR <sup>3</sup>                                                                                                                                                                                                                                                                                          |
|        | <b>thickness:</b>             | > 315 – 370                                               | DIR LB6 + M LB6Y (OD 6+)          |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 371 – 373                                                 | DIRM LB5 (OD 5+)                  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | <b>Filter color:</b>          | 374 – 376                                                 | DIRM LB4 (OD 4+)                  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 377 – 378                                                 | DIRM LB3 (OD 3+)                  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 379 – 382                                                 | DIRM LB2 (OD 2+)                  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | <b>Material:</b>              | 383 – 387                                                 | DIRM LB1 (OD 1+)                  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | > 1400 – 1502                                             | DIRM LB1 (OD 1+)                  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | <b>VLT:</b> 56 % <sup>1</sup> | 1503 – 1651                                               | DIRM LB2 (OD 2+)                  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 1652 – 1890                                               | DI LB3 + R LB3Y + M LB3 (OD 3+)   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 1891 – 3000                                               | DI LB4 + R LB3Y + M LB4Y (OD 4+)  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 3001 – 4758                                               | DI LB3 + R LB3Y + M LB3 (OD 3+)   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | 4759 – 11000                                              | DI LB4 + R LB3Y + M LB4Y (OD 4+)  |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               | PF CE                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               |                                                           |                                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
|        |                               |                                                           |                                   |                                                                                                                                                                                                                                                                                                                                                                                                   |

# Kunststofffilter | Special Plastic Filters

| Filter | Characteristics               | Protection Level of the Filter (EN 207, 208) <sup>2</sup> | OD Diagram                                                                           | Available Frames                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------|-------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0282   | <b>Filter</b>                 | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y (OD 10+)                                                    | <br>ONTOR <sup>3</sup>                                                                                                                                                                                                                                                                                                          |
|        | <b>thickness:</b>             | > 315 – 380                                               | D LB6 + I LB7 + RM LB8 (OD 8+)                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | 2.0 mm <sup>1</sup>           | > 380 – 420                                               | D LB5 + IRM LB6 (OD 6+)                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Filter color:</b>          | 421 – 438                                                 | DIRM LB4 (OD 4+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Green                         | 439 – 451                                                 | DIRM LB2 (OD 2+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | 452 – 461                                                 | DIRM LB1 (OD 1+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Material:</b>              | 695 – 740                                                 | DIRM LB1 (OD 1+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Special plastic               | 741 – 804                                                 | DIRM LB2 (OD 2+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>VLT:</b> 63 % <sup>1</sup> | 805 – 840                                                 | DIRM LB4 (OD 4+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | > 840 – 890                                               | DIRM LB5 (OD 5+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | > 890 – 940                                               | DIRM LB6 (OD 6+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | > 940 – 1070                                              | D LB6 + I LB7 + RM LB8 (OD 8+)                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | 970 – 1065                                                | D LB6 + I LB7 + R LB8 + M LB9 (OD 9+)                                                |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | 1071 – 1080                                               | DIRM LB6 (OD 6+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | 1081 – 1100                                               | DIRM LB4 (OD 4+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | 1101 – 1132                                               | DIRM LB2 (OD 2+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | 1133 – 1160                                               | DIRM LB1 (OD 1+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | 5170 – 11500                                              | DI LB4 + R LB3Y (OD 4+)                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               | PF CE                                                     |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               |                                                           |    |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 0283   | <b>Filter</b>                 | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y (OD 10+)                                                    | <br>ONTOR <sup>3</sup>                                                                                                                                                                                                                                                                                                         |
|        | <b>thickness:</b>             | > 315 – 370                                               | D LB6 + I LB7 + R LB8 + M LB7Y (OD 8+)                                               |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | 2.0 mm <sup>1</sup>           | 371 – 380                                                 | DIRM LB5 (OD 5+)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Filter color:</b>          | 5145 – 11500                                              | DI LB4 + R LB3Y (OD 4+)                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Clear                         | PF CE                                                     |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Material:</b>              |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Special plastic               |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>VLT:</b> 90 % <sup>1</sup> |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               |                                                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 0315   | <b>Filter</b>                 | 950 – < 970                                               | DIR LB6 (OD 6+)                                                                      | <br>COMBOR <br>ONTOR <sup>3</sup> <br>TERMINATOR <br>OPTIMATOR |
|        | <b>thickness:</b>             | 970 – 1064                                                | D LB6 + IR LB7 (OD 7+)                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | 2.0 mm <sup>1</sup>           | PF S CE                                                   |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Filter color:</b>          |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Green                         |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Material:</b>              |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Special plastic               |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>VLT:</b> 60 % <sup>1</sup> |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               |                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 0327   | <b>Filter</b>                 | 180 – 315                                                 | D LB10 + IR LB4 + M LB5Y (OD 10+)                                                    | <br>ASTOR – XL <sup>3</sup>                                                                                                                                                                                                                                                                                                   |
|        | <b>thickness:</b>             | > 315 – 370                                               | D LB6 + IR LB7 + M LB7Y (OD 7+)                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | 2.0 mm <sup>1</sup>           | > 370 – 380                                               | DIR LB5 + M LB5Y (OD 5+)                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Filter color:</b>          | PF CE                                                     |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Yellow                        |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>Material:</b>              |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Special plastic               |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | <b>VLT:</b> 85 % <sup>1</sup> |                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        |                               |                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                    |

<sup>1</sup> Gemessener Wert; kleine Abweichungen möglich | <sup>1</sup> Measured value; small deviation possible; <sup>2</sup> Schutzstufen können in Gestellen leicht variieren | <sup>2</sup> Protection levels can vary slightly in frames; <sup>3</sup> Als Überbrille geeignet | <sup>3</sup> Suitable as over-glasses; Abbildungen ähnlich | pictures similar

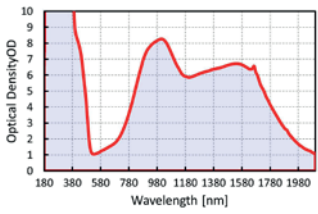
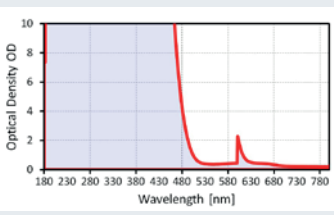
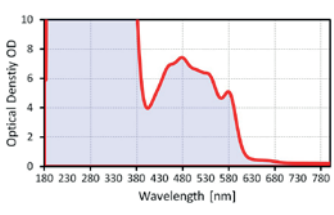
\* M-Schutzstufen dieses Gestells zwischen 1400 – 11000 nm befinden sich in der Erweiterung | \* M-protection levels of this frame between 1400 – 11000 nm are in extension



## Kunststofffilter | Special Plastic Filters

| Filter | Characteristics                                                                                                                                                              | Protection Level of the Filter (EN 207, 208) <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OD Diagram | Available Frames   |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|
| 0337   | <b>Filter</b><br><b>thickness:</b><br>2.0 mm <sup>1</sup><br><b>Filter color:</b><br>Purple<br><b>Material:</b><br>Special plastic<br><b>VLT:</b> appr.<br>10 % <sup>1</sup> | 530 – 535 DIR LB2 (OD 2+)<br>>535 – 565 DIR LB3 (OD 3+)<br>>565 – 569 DIR LB4 (OD 4+)<br>>569 – 572 D LB4 + IR LB5 (OD 5+)<br>>572 – 580 D LB4 + IR LB6 (OD 6+)<br>>580 – 600 D LB4 + IR LB7 (OD 7+)<br>PF CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | ONTOR <sup>3</sup> |
|        | <b>Filter</b><br><b>thickness:</b><br>2.0 mm <sup>1</sup><br><b>Filter color:</b><br>Green<br><b>Material:</b><br>Special plastic<br><b>VLT:</b> appr.<br>41 % <sup>1</sup>  | 610 – 625 DIRM LB1 (OD 1+)<br>>625 – 629 DIRM LB2 (OD 2+)<br>>629 – 635 DIRM LB3 (OD 3+)<br>>635 – 640 DIRM LB4 (OD 4+)<br>>640 – 643 DIRM LB6 (OD 6+)<br>>643 – 658 D LB6 + IRM LB7 (OD 7+)<br>>658 – 664 DIRM LB4 (OD 4+)<br>>664 – 668 DIRM LB3 (OD 3+)<br>>668 – 672 DIRM LB2 (OD 2+)<br>>672 – 755 DIRM LB1 (OD 1+)<br>>755 – 785 DIRM LB2 (OD 2+)<br>>785 – 815 DIRM LB3 (OD 3+)<br>>815 – 860 DIRM LB4 (OD 4+)<br>>860 – 910 DIRM LB5 (OD 5+)<br>>910 – 930 DIRM LB6 (OD 6+)<br>>930 – 950 D LB6 + IRM LB7 (OD 7+)<br>>950 – 1040 D LB6 + IM LB8 + R LB7 (OD 8+)<br>>1041 – 1065 D LB6 + IRM LB7 (OD 7+)<br>>1065 – 1073 DIRM LB6 (OD 6+)<br>>1073 – 1083 DIRM LB5 (OD 5+)<br>>1083 – 1095 DIRM LB4 (OD 4+)<br>>1096 – 1100 DIRM LB3 (OD 3+)<br>PF S CE |            | ONTOR <sup>3</sup> |
| 0340   | <b>Filter</b><br><b>thickness:</b><br>2.0 mm <sup>1</sup><br><b>Filter color:</b><br>Blue<br><b>Material:</b><br>Special plastic<br><b>VLT:</b> appr.<br>40 % <sup>1</sup>   | 585 – 605 DIR LB1 (OD 1+)<br>>605 – 616 DIR LB2 (OD 2+)<br>>616 – 621 DIR LB3 (OD 3+)<br>>621 – 624 DIR LB4 (OD 4+)<br>>624 – 666 D LB4 + IR LB5 (OD 5+)<br>>666 – 680 DIR LB4 (OD 4+)<br>>680 – 720 D LB4 + IR LB5 (OD 5+)<br>PF CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            | ONTOR <sup>3</sup> |
|        | <b>Filter</b><br><b>thickness:</b><br>2.0 mm <sup>1</sup><br><b>Filter color:</b><br>Grey<br><b>Material:</b><br>Special plastic<br><b>VLT:</b> appr.<br>25 % <sup>1</sup>   | 180 – 315 D LB10 + IR LB5 + M LB6Y (OD 10+)<br>800 – 1000 DIR LB1 (OD 1+)<br>>1000 – 1300 DIR LB2 (OD 2+)<br>>1300 – 1400 DIR LB3 (OD 3+)<br>>1400 – 1430 DIR LB3 + M LB4Y (OD 4+)<br>>1430 – 1530 DI LB4 + R LB3Y + M LB4Y (OD 4+)<br>>1530 – 3000 DI LB4 + R LB3Y + M LB4Y (OD 4+)<br>>3000 – 11500 DI LB4 + R LB3Y + M LB4Y (OD 4+)<br>PF S CE                                                                                                                                                                                                                                                                                                                                                                                                              |            | ONTOR <sup>3</sup> |

# Kunststofffilter | Special Plastic Filters

| Filter | Characteristics              | Protection Level of the Filter (EN 207, 208) <sup>2</sup> | OD Diagram                                                                           | Available Frames                                                                                            |
|--------|------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 0345   | <b>Filter</b>                | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y                                                             | OD 10+                                                                                                      |
|        | <b>thickness:</b>            | > 315 – 465                                               | D LB6 + IRM LB8                                                                      | OD 8+                                                                                                       |
|        | 2.0 mm <sup>1</sup>          | > 465 – 472                                               | D LB6 + IRM LB8                                                                      | OD 8+                                                                                                       |
|        | <b>Filter color:</b>         | > 472 – 480                                               | DIRM LB6                                                                             | OD 6+                                                                                                       |
|        | dark green                   | > 480 – 484                                               | DIRM LB5                                                                             | OD 5+                                                                                                       |
|        | <b>Material:</b>             | > 484 – 488                                               | DIRM LB4                                                                             | OD 4+                                                                                                       |
|        | Special plastic              | > 488 – 494                                               | DIRM LB3                                                                             | OD 3+                                                                                                       |
|        | <b>VLT:</b> 8% <sup>1</sup>  | > 494 – 500                                               | DIRM LB2                                                                             | OD 2+                                                                                                       |
|        |                              | > 500 – 512                                               | DIRM LB1                                                                             | OD 1+                                                                                                       |
|        |                              | 650 – 730                                                 | DIRM LB1                                                                             | OD 1+                                                                                                       |
|        |                              | > 730 – 775                                               | DIRM LB2                                                                             | OD 2+                                                                                                       |
|        |                              | > 775 – 805                                               | DIRM LB3                                                                             | OD 3+                                                                                                       |
|        |                              | > 805 – 835                                               | DIRM LB4                                                                             | OD 4+                                                                                                       |
|        |                              | > 835 – 865                                               | DIRM LB5                                                                             | OD 5+                                                                                                       |
|        |                              | > 865 – 890                                               | DIRM LB6                                                                             | OD 6+                                                                                                       |
|        |                              | > 890 – 960                                               | D LB6 + IRM LB7                                                                      | OD 7+                                                                                                       |
|        |                              | > 960 – 1050                                              | D LB6 + IRM LB8                                                                      | OD 8+                                                                                                       |
|        |                              | > 1050 – 1100                                             | D LB6 + IRM LB7                                                                      | OD 7+                                                                                                       |
|        |                              | > 1100 – 1400                                             | DIRM LB6                                                                             | OD 6+                                                                                                       |
|        |                              | > 1400 – 1760                                             | DI LB4 + R LB3Y                                                                      | OD 4+                                                                                                       |
|        |                              | > 1760 – 1830                                             | DI LB3 + R LB3Y                                                                      | OD 3+                                                                                                       |
|        |                              | > 1830 – 1910                                             | DI LB2 + R LB2Y                                                                      | OD 2+                                                                                                       |
|        |                              | > 1910 – 2050                                             | DI LB1 + R LB1Y                                                                      | OD 1+                                                                                                       |
|        |                              | 5200 – 11500                                              | DI LB4 + R LB3Y                                                                      | OD 4+                                                                                                       |
|        |                              | PF CE                                                     |                                                                                      |                                                                                                             |
|        |                              |                                                           |    | <br>ONTOR <sup>3</sup>   |
| 0368   | <b>Filter</b>                | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y                                                             | OD 10+                                                                                                      |
|        | <b>thickness:</b>            | > 315 – 460                                               | D LB6 + I LB7 + R LB8 + M LB7Y                                                       | OD 8+                                                                                                       |
|        | 2.0 mm <sup>1</sup>          | > 460 – 465                                               | D LB6 + I LB7 + R LB8 + M LB7Y                                                       | OD 8+                                                                                                       |
|        | <b>Filter color:</b>         | > 465 – 470                                               | D LB6 + IR LB7 + M LB7Y                                                              | OD 7+                                                                                                       |
|        | yellow                       | > 470 – 475                                               | DIRM LB5                                                                             | OD 5+                                                                                                       |
|        | <b>Material:</b>             | > 475 – 480                                               | DIRM LB4                                                                             | OD 4+                                                                                                       |
|        | Special plastic              | > 480 – 485                                               | DIRM LB3                                                                             | OD 3+                                                                                                       |
|        | <b>VLT:</b> 68% <sup>1</sup> | > 485 – 490                                               | DIRM LB2                                                                             | OD 2+                                                                                                       |
|        |                              | > 490 – 498                                               | DIRM LB1                                                                             | OD 1+                                                                                                       |
|        |                              | PF CE                                                     |                                                                                      |                                                                                                             |
|        |                              |                                                           |  | <br>ONTOR <sup>3</sup> |
| 0377   | <b>Filter</b>                | 180 – 315                                                 | D LB10 + IR LB5 + M LB6Y                                                             | OD 10+                                                                                                      |
|        | <b>thickness:</b>            | 315 – 380                                                 | D LB6 + I LB7 + R LB8 + M LB7Y                                                       | OD 8+                                                                                                       |
|        | 2.0 mm <sup>1</sup>          | 380 – 390                                                 | DIRM LB5                                                                             | OD 5+                                                                                                       |
|        | <b>Filter color:</b>         | 390 – 398                                                 | DIRM LB4                                                                             | OD 4+                                                                                                       |
|        | red                          | 398 – 412                                                 | DIRM LB3                                                                             | OD 3+                                                                                                       |
|        | <b>Material:</b>             | 412 – 427                                                 | DIRM LB4                                                                             | OD 4+                                                                                                       |
|        | Special plastic              | 427 – 440                                                 | DIRM LB5                                                                             | OD 5+                                                                                                       |
|        | <b>VLT:</b> 6% <sup>1</sup>  | 440 – 465                                                 | DIRM LB6                                                                             | OD 6+                                                                                                       |
|        |                              | 465 – 488                                                 | DIM LB6 + R LB7                                                                      | OD 7+                                                                                                       |
|        |                              | 488 – 540                                                 | DIRM LB6                                                                             | OD 6+                                                                                                       |
|        |                              | 540 – 552                                                 | DIRM LB5                                                                             | OD 5+                                                                                                       |
|        |                              | 552 – 590                                                 | DIRM LB3                                                                             | OD 3+                                                                                                       |
|        |                              | 590 – 596                                                 | DIRM LB2                                                                             | OD 2+                                                                                                       |
|        |                              | 596 – 605                                                 | DIRM LB1                                                                             | OD 1+                                                                                                       |
|        |                              | PF CE                                                     |                                                                                      |                                                                                                             |
|        |                              |                                                           |  | <br>ONTOR <sup>3</sup> |

<sup>1</sup> Gemessener Wert; kleine Abweichungen möglich | <sup>1</sup> Measured value; small deviation possible; <sup>2</sup> Schutzstufen können in Gestellen leicht variieren | <sup>2</sup> Protection levels can vary slightly in frames; <sup>3</sup> Als Überbrille geeignet | <sup>3</sup> Suitable as over-glasses; <sup>4</sup> Abbildungen ähnlich | pictures similar

\* M-Schutzstufen dieses Gestells zwischen 1400 – 11000 nm befinden sich in der Erweiterung | \* M-protection levels of this frame between 1400 - 11000 nm are in extension



Bestell-Nr. | Order No.: 900-VERP-ALU-S / 900-VERP-ALU

## Stabile Aufbewahrungsboxen aus Alu | Stable storage boxes made of aluminium

Zur sicheren Aufbewahrung Ihrer Laserschutzbrille. Schützt zuverlässig vor mechanischen Einwirkungen und Staub.

For safe storage of your laser safety goggles. Protects reliably against mechanical influences and dust.

### In zwei Größen lieferbar:

**Größe S** (B x H x T) 16 x 4,5 x 7,5 cm:  
für Bügelbrillen wie RETRO, TERMINATOR

**Größe XL** (B x H x T) 20 x 6,5 x 8,5 cm:  
für Überbrillen wie GLADIATOR, SPECTOR

### Available in two sizes:

**Size S** (W x H x D) 16 x 4,5 x 7,5 cm:

für for eyewear like RETRO, TERMINATOR

**Size XL** (W x H x D) 20 x 6,5 x 8,5 cm: for over-glasses like GLADIATOR, SPECTOR



Bestell-Nr. | Order No.: 900-VERP-HART-XL-50

## Aufbewahrungsbox für Überbrillen | Storage box for large spectacles

### Eigenschaften:

- stabile Box zur sicheren Aufbewahrung Ihrer Überbrille
- in zwei verschiedenen Größen erhältlich
- beide mit Samteinlage ausgekleidet
- mit Reißverschluss

### Features:

- our solid box attends to secure storage of your large spectacles
- available in two sizes
- both with soft insert
- with zipper



Beispiel für RETRO | Example for RETRO  
Bestell-Nr. | Order No.: 590-KOR-RETR-CLIPIN

## Korrektionseinsätze | Correction inserts

Wir bieten Korrektioneinsätze für die unsere Gestelle TERMINATOR, TERMINATOR Plus und RETRO. Die Einsätze lassen sich im Handumdrehen befestigen. Der Korrektioneinsatz ist von einem Optiker anzupassen.

We offer correction inserts for our frames TERMINATOR, TERMINATOR Plus and RETRO. The inserts can be attached in no time at all. The correction insert must be adjusted by an optician.

### Lieferung:

blindverglasst, auf Wunsch auch mit Ihren Korrektionswerten lieferbar

### Delivery:

blind glazed, on demand also shippable with correction glasses



Bestell-Nr. | Order No.: 900-GLAD-SET

## Kopfband & Gummilippe für GLADIATOR | Headband & rubber lip for GLADIATOR

Beim Modell GLADIATOR können sowohl das Kopfband als auch die blaue Gummilippe einfach ersetzt werden. Leichte Handhabung beim Austausch.

In the GLADIATOR model, both the headgear and the blue rubber lip can be easily replaced. Easy handling when replacing.



Bestell-Nr. | Order No.: 900-GLAD-HEAD

## Kopfhalterung für verschiedene Brillengestelle | Head support system for different frames

Die schwarze Kopfhalterung ist optional zum regulären Kopfband einsetzbar. Sie sorgt für angenehmen Tragekomfort bei Schichtfiltern und ist individuell einstellbar.

The black head holder is optional for the regular headband can be used. It provides pleasant wearing comfort for sheet filters and is individually adjustable.

### Erhältlich für die Fassungen:

GLADIATOR, UNIVERSAL, CONVEX

### Available for the frames:

GLADIATOR, UNIVERSAL, CONVEX



Bestell-Nr. | Order No.: 900-ZUBE-R01

## Reinigungsstation | Cleaning station

Alles komplett zur fachgerechten Reinigung Ihrer Laserschutzbrillen sofort zur Hand.

Everything you need for the professional cleaning of your laser protection glasses immediately at hand.

### Die Reinigungsstation enthält:

- Abschließbares Wandgehäuse (H 45 cm x B 29 cm x T 9 cm)
- Ca. 0,5 l Reinigungsflüssigkeit + 2 Packungen silikonfreies Papier à ca. 700 Blatt
- 1 Sprühpumpe

### The cleaning station consists of:

- Lockable wall housing (45 cm x 29 cm x 9 cm)
- Approx. 0.5 l cleaning liquid + 2 packs of silicone free paper apiece approx. 700 sheets
- 1 spraying pump



Bestell-Nr. | Order No.: 900-ZUBE-R04

## Brillenkordeln | Spectacle cord

Die verstellbare Brillenkordel ist für den sicheren Sitz aller Glas- und Kunststoff - Laserschutzbrillen geeignet. Die elastischen Schlaufen werden einfach über die Bügelenden geschoben und dort arretiert.

**Material:** Textil

**Standardfarbe:** schwarz

The adjustable spectacle cord is suitable for the secure fit of all glass and plastic laser safety spectacles. The elastic loops are simply pushed over the temple ends and locked there.

**Material:** Textile

**Standard color:** black



Bestell-Nr. | Order No.: 900-ZUBE-R023

## Reinigungsspray | Cleaning Liquid

Unser Reinigungsspray ist zur fachgerechten Reinigung aller Mineralglas- und Kunststofffilter verwendbar. Es verhindert das Beschlagen des Filters, wirkt antistatisch, ist silikonfrei, alkoholfrei und ohne Treibgase.

**Inhalt:** ca. 30 ml

Our cleaning spray can be used for professional cleaning of all mineral glass and plastic filters. It prevents fogging of the filter, is antistatic, silicone-free, alcohol-free and without propellant gases.

**Volume:** approx. 30 ml



Bestell-Nr. | Order No.: 900-ZUBE-R03-10

## Brillenputztücher (10 Stück) | Eyewear cleaning cloths (10 pieces)

Unsere Brillenputztücher aus schwarzem Microfaserstoff sind zum Reinigen aller Mineralglas- und Kunststofffilter verwendbar. Auf Wunsch können die Tücher auch mit Ihrem Firmenlogo personalisiert werden.

**Größe:** 15 x 18 cm

Our eyeglass cleaning cloths made of black microfiber fabric can be used to clean all mineral glass and plastic filters. On request, the cloths can also be personalised with your company logo.

**Size:** 15 x 18 cm



Bestell-Nr. | Order No.: 900-VERP-MICRO-01 (schwarz | black)  
900-VERP-MICRO-02 (weiß | white)

## Mikrofaserbeutel | Microfiber pouch

Für eine sichere und staubfreie Aufbewahrung Ihrer Bügelbrillen. Mit dem Zugband sicher verschließbar.

Farben: schwarz, weiß

**Größe:** 19 x 10,5 cm

For safe and dust-free storage of your spectacles. Securely lockable by the tieback. Colors: black, white

**Size:** 19 x 10,5 cm



## Personalisierung | Customized solutions

Sowohl unsere stabilen Aufbewahrungsboxen aus Kunststoff, unsere Brillenputztücher als auch die Laserschutzbrille selbst, können mit Ihrem Firmenlogo personalisiert werden. Hierzu beraten wir Sie gerne individuell.

Both our sturdy plastic storage boxes, our eyeglass cleaning cloths as well as the laser safety glasses themselves can be personalized with your company logo. We will gladly consult you individually.



## Laserschutzseminar nach OStrV, TROS, anerkannt

Die erfolgreiche Absolvierung der Prüfung berechtigt Sie zur Wahrnehmung der Funktion als Laserschutzbeauftragter. Betreiben Unternehmen Laser der Klassen 3 oder 4, ist es nach optischer Strahlungsverordnung OStrV gesetzlich bestimmt, dass ein Laserschutzbeauftragter mit entsprechenden Fachkenntnissen bestellt werden muss.

Eine abgeschlossene technische, naturwissenschaftliche, medizinische oder kosmetische Berufsausbildung und mindestens zwei Jahre Berufserfahrung im Unternehmen sind Voraussetzung. (TROS-Laserstrahlung Teil Allgemeines Kapitel 2015 (Version))

Physikalische Größen und Eigenschaften, Risikofaktoren für den Menschen, Lasersicherheit- und Schutz, die Aufgaben des Laserschutzbeauftragten, sowie rechtliche Grundlagen und Regeln der Technik werden vermittelt.

Der Kurs wird applikationsbezogen für Industrie oder Medizin durchgeführt. Termine können individuell vereinbart werden.

## Laser safety seminar according to OStrV, TROS, approved

Successful completion of the examination entitles you to assume the function of laser safety officer. If companies operate class 3 or 4 lasers, the OStrV optical radiation ordinance stipulates that a laser safety officer with the appropriate specialist knowledge must be appointed.

A completed technical, scientific, medical or cosmetic vocational training and at least two years of professional experience in the company are required. (TROS laser radiation part general chapter 2015 (version))

Physical quantities and properties, risk factors for humans, laser safety and protection, the tasks of the laser safety officer, as well as legal basics and rules of technology are taught.

The course is application-related for industry or medicine. Appointments can be arranged individually.



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