



CARE & CLEANING GUIDELINES

LASER FILTERING GLASSES



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CAUTION!

Never look directly into the path of a laser beam.

Filtering glasses are not to be used as impact safety lenses. Impact resistant over-goggles must be used if impact protection is required.

Color recognition (of warning lights, etc.) may be affected by tinted lenses.

STORAGE

Glasses should be stored in protective case when not in use. Normal room temperature and low relative humidity is ideal.

CLEANING

Use water; mild, non-alkali, non-acidic, soap or detergent; and soft lint-free cloth.

DO NOT AUTO-CLAVE.

MAINTENANCE

End user maintenance limited to tightening of hinge screws.

WARRANTY

Phillips Safety Products laser protective eyewear comes with one-year warranty from date of sale.

Glasses do not expire but should be checked often.

DISCONTINUE USE IF

Scratched or cracked lens.

Damaged or cracked frame.

Loss of protection level markings.

POLYCARBONATE LENSES

POLYCARBONATE	FILTER SPECIFICATIONS	LENS COLOR/VLT%
LS-AA	OD 1.5+ @405-411nm OD 3+ @480-532nm OD 1.5+ @470-555nm	RED/26%
LS-AA3	OD 7+ @190-200nm OD 3.5+ @532nm OD 3+ @604nm	RED/7%
LS-AD	OD 5+ @730-855nm OD 7+ @755-830nm	PINK/32.6%
LS-AKP	OD 6+ @190-532nm OD 6+ @5000-11,000nm	ORANGE/46.4%
LS-CD2	OD 5+ @190-370nm OD 6+ @1060nm	CLEAR/82%
LS-CR39	OD 7+ @190-340nm OD 7+ @2760-3470nm OD 7+ @5000-11000nm	CLEAR/85%
LS-D680	OD 6+ @190-370nm OD 2+ @660-780nm OD 3+ @745-1115nm OD 5+ @800-904nm OD 6+ @905-1075 nm OD 6+ @1060nm	GREEN/64%
LS-D81	OD 5+ @800-830nm	YELLOW GREEN/68%
LS-D98	OD 5+ @800-980nm	GREEN/50%
LS-DH83	OD 7+ @190-400nm OD 7+ @532nm OD 6+ @910-1070nm OD 5+ @850-1075nm OD 4+ @808-850nm	BROWN/33%
LS-DIO	OD 6+ @600-900nm	GREEN/27.9%
LS-D1500	OD 3+ @804-1300nm OD 5+ @1064nm OD 4+ @1300-1700nm OD 2 @1700-1900nm	GREEN/16%
LS-DYH	OD 5+ @190-534nm OD 5+ @830-1090nm OD 7+ @1064nm	AMBER/28%
LS-HENE	OD 5+ @190-380nm OD 2+ @633nm	BLUE/69%
LS-IPL	OD 1.5+ @550-1100nm OD 3+ @620-1050nm	GREEN/15%
LS-IPLB	IPL USE ONLY	BROWN
LS-RBY	OD 4+ @690-691nm OD 7+ @692-714nm	TEAL/33.8%
LS-SFP	OD 7+ @190-390nm OD 5+ @589-600nm OD 6+ @592-597nm	PURPLE/27.2%
LS-Y93	OD 6+ @190-435nm OD 5+ @730-1085nm OD 7+ @755nm OD 7+ @1064nm	GREEN/41%
LS-Y97	OD 7+ @725-1120nm OD 6+ @1060nm	GREEN/21%
LS-YAG	OD 7+ @190-380nm OD 7+ @1064nm OD 5+ @900-1100nm	GREEN/54%
LS-YAGD	OD 5+ @190-534nm OD 6+ @910-1070nm	BROWN/26.2%
LS-YHAD	OD 5+ @190-534nm OD 5+ @730-1090nm OD 7+ @1064nm	AMBER/10.6%
LS-YAGA	OD 5+ @190-400nm OD 2+ @480-532nm OD 5+ @860-1070nm	DARK ORANGE/12%

GLASS	FILTER SPECIFICATIONS	LENS COLOR/VLT%
LS-BG3	OD 6+ @512-680nm OD 7+ @518-677nm	PURPLE/14%
LS-BG38	OD 2+ @632nm OD 3+ @650-690nm OD 4+ @690-1000nm	BLUE/55.5%
LS-BG42	OD 7+ @700-1200nm	LIGHT BLUE/64%
LS-BGKG	OD 7+ @200-315nm OD 7+ @704-1600nm OD 5+ @1600-2200nm OD 3+ @2200-2850nm OD 7+ @2850-5200nm	LIGHT BLUE/50%
LS-CKG5	OD 7+ @532nm,755-810nm, 1064nm OD 4+ @810-840nm OD 5+ @950-1700nm OD 5+ @2100-2200nm, 2900-3200nm OD 5+ @10600nm	LIGHT GREEN/75%
LS-G15	OD 1+ @400-667nm OD 0.5+ @668-700nm	GRAY/17%
LS-KG5	OD 4+ @870-950nm OD 5+ @950-1000nm OD 7+ @1000-1500nm OD 4+ @1550-2750nm OD 6+ @2800-11000nm	LIGHT BLUE/75%
LS-KG5+	OD 6+ @870-950nm OD 9+ @950-1000nm OD 10+ @1000-1550nm OD 6+ @1550-2750nm OD 8+ @2800-11000nm	LIGHT BLUE/71%
LS-S806	OD 4+ @591-597nm OD 5+ @592-596nm OD 6+ @570-595nm OD 7+ @571-594nm OD 7+ @735-755nm OD 7+ @795-810nm	PURPLE/22.7%
LS-DFIU	OD 7+ @190-540nm OD 2+ @630-650nm OD 3+ @650-690nm OD 6+ @690-710nm OD 7+ @710-1200nm	BROWN/21%

CE CERTIFIED

LASER SAFETY LENSES & FRAMES

These filters and frames have been tested to the following standards: EN 207:2009 + AC:2011; EN 207:2017

Please note that the frames can be assembled with different filters. The final marking/the final specification for laser safety are given by the lowest intersection of the two components (frame and filter).

The CE certified laser glasses are assembled from the lenses and frames that are identical to the PPE which are the subject of the following EU type Examination Certificates issued by Notifying Body 1883: ECS GmbH, Huettelstrasse 50, 73430, Aalen, Germany:

C1569.2PSP
for KG5 lenses

C1562.2PSP
for CD2 lenses

C1855.2PSP
for Y93 lenses

C1574.2PSP
for model 66 frame in black

C1560.2PSP
for D81 lenses

C1563.2PSP
for YAG lenses

C1723.2PSP
for BG42 lenses

C1731.2PSP
for model 300 frame in black

C1561.2PSP
for D86 lenses

C1564.2PSP
for YAGD lenses

CE CERTIFIED

LASER SAFETY LENSES & FRAMES

POLYCARBONATE	FILTER SPECIFICATIONS	LENS COLOR/VLT%
CD2	190-315 D LB7+IR LB3 315-380 D LB5+IR LB6+M LB6Y 10600 DI LB3 PSP S CE	CLEAR/90%
D81	807-810 DIR LB4 >810-823 DIR LB5 >823-827 DIR LB4	GREEN/38%
D98	190-315 D LB7+IR LB3 315-390 D LB5+IR LB6+M LB6Y 800-820 D LB5+IR LB7 >820-890 D LB5+IR LB6 >890-980 D LB5+IR LB7	GREEN/38%
YAG	190-315 D LB7+IR LB3 315-380 DIR LB5+M LB5Y 840-900 DIR LB3 >900-950 DIR LB4+M LB4Y >950-1065 DIR LB5+M LB5Y	GREEN/48%
YAGD	190-315 D LB7+IR LB3 315-534 D LB5+IR LB6+M LB6Y 900-970 DIR LB6+M LB6Y >970-1070D LB6+IR LB7+M LB7Y	BROWN/25%
Y93	190-315 D LB7+IR LB4 315-420 D LB5+IR LB6 420-440 DIR LB5 730-1055 DIR LB5 755 D LB6+IR LB7 1064 D LB6+IR LB7	GREEN/34%

GLASS	FILTER SPECIFICATIONS	
BG42	700-1200D LB6+IR LB7	LIGHT BLUE/38%
KG5	900-925 DIR LB4 >925-1000 DIR LB4 >1000-1025 DIR LB6 >1025-1400 D LB6+IR LB7 >1400-2400 DIR LB4 2900-10600 DI LB4	LIGHT BLUE/75%

FRAME	FILTER SPECIFICATIONS	FRAME COLOR
FRAME 66	190-315 D LB8+IR LB4 >315-1400 D LB5+IR LB7+M LB6Y >1400-11500 DI LB3	BLACK
FRAME 300	190-315 D LB7+IR LB3 >315-1400 D LB5+IR LB7 >1400-11500 DI LB3	BLACK

FILTER SPECIFICATION/ MARKINGS MEANING

1. First range of numbers is the wavelength range.

2. Test Conditions: D I R M

- D** Continuous wave or average Power Density (*exposure time* > 0.25s)
- I** Pulse lengths between 1µs and 0.25s.
- R** Pulse lengths between 1ns and 1µs.
- M** Pulse lengths less than 1ns.

3. LB - Protection levels provided at the test conditions.