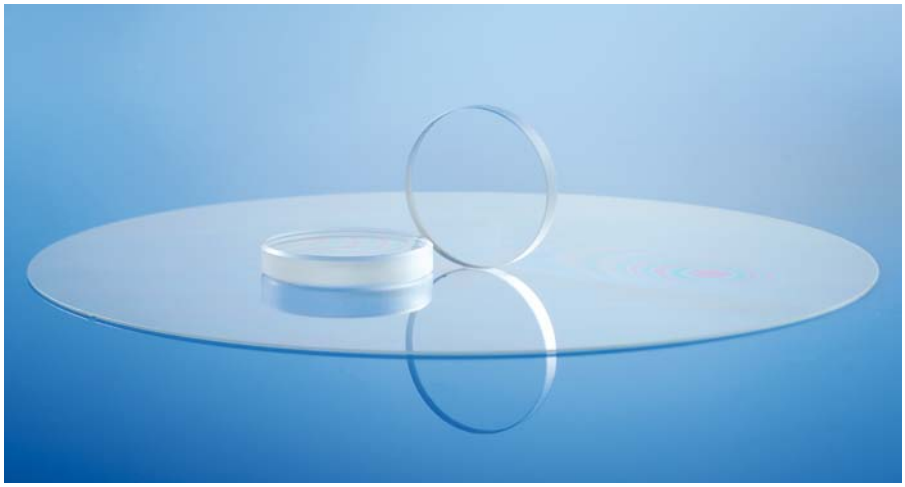
Debris Shields

Product Information

Debris shields can be used to protect laser optics against dust and pollution. Very high transmission at laser wavelength and low wavefront distortion are key points for Debris shields.



Applications

Debris shields are used especially in high power laser systems to protect the laser optics against dust and fumes from experimental areas.

Advantages

- Customized design
- High quality consistency
- High laser damage threshold
- High transmittance at laser wavelength
- Low wavefront distortion because of high homogeneity
- AR & customized coating possible

Materials

- SCHOTT N-BK7®
- BOROFLOAT®
- Fused Silica
- Other materials on request

Manufacturing Capabilities

	Commercial Quality	Precision Quality	Ultra Precision Quality
Diameter		From 2 mm to 625 mm	
Diameter Tolerance	± 0.25 mm	± 0.050 mm	± 0.005 mm
Thickness Tolerance	± 0.20 mm	± 0.040 mm	± 0.020 mm
Parallelism	< 3 arc minutes	< 1 arc minutes	< 10 arc seconds
Surface Accuracy	2λ	λ/4	λ/20*
Surface Quality (Scratch & Dig)	80/50	60/40	10/5
Surface Roughness	5 nm	2 nm	5Å rms
AR Coating	R_{avg} < 1.5%	R_{avg} < 0.5%	Custom Designed
Order Quantity**		From 1 piece to series production	
Delivery Time**	4 – 6 weeks	4 – 6 weeks	4 – 10 weeks

* Depending on geometry
** Depending on customer specification. Please call your sale representative

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Advanced Optics
SCHOTT AG
Hattenbergstrasse 10
55122 Mainz
Germany
Phone +49 (0)6131/66-1812
Fax +49 (0)3641/2888-9047
info.optics@schott.com

www.schott.com/advanced_optics

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