

Spherical & Achromatic Lenses

Product Information

Spherical lenses are used in a huge number of applications for collecting, focusing and diverging the light. Achromatics consist of two or three elements of different optical materials cemented together to limit the effect of spherical and chromatic aberration.

Advantages

- SCHOTT masters the entire value chain from raw glass to spherical coated lenses
- Custom designed products at competitive prices
- Coating: all lenses can be coated to a specific custom design

Materials

- All types of optical glasses
- Fused silica
- Other materials on request



Examples of Products

- Plano convex/concave
- Bi-convex/concave
- Achromatic doublets or triplets
- Meniscus lens

Manufacturing Capabilities

Attribute	Commercial Quality	Precision Quality	Ultra Precision Quality
Diameter*	From 3 mm to 150 mm	From 3 mm to 150 mm	From 3 mm to 150 mm
Diameter Tolerance*	+ 0.0/0.25 mm	+ 0.0/0.1 mm	+ 0.0/0.05 mm
Thickness Tolerance*	± 0.20 mm	± 0.040 mm	± 0.020 mm
Centering Tolerance*	< 3 arc minutes	< 1 arc minutes	< 30 arc seconds
Surface Accuracy*	2λ	λ/4	λ/10
Surface Quality (Scratch & Dig)*	80/50	60/40	10/5
Typical Order Quantity*	From 50 pcs to 50K pcs	From 50 pcs to 50K pcs	From 20 pcs to 20K pcs
Delivery Time*	8 – 10 weeks	8 – 10 weeks	8 – 10 weeks

* Depending on customer's specification. Please call sales representative.



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