

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 available in different processing stages (matt, polished, coated or cemented)
- Customized coatings for all lenses available to suit the right application

Materials

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



Examples of Products

- Lenses plano-convex/plano-concave
- Lenses bi-convex/bi-concave
- Achromatic doublets or triplets*
- Meniscus lenses

Manufacturing Capabilities

Attribute	Standard	Precision	High Precision*
Diameter	4 – 150 mm	6 – 150 mm	8 – 150 mm
Diameter Tolerance	0 to -0.25 mm	0 to -0.1 mm	0 to -0.050 mm
Thickness Tolerance	± 0.2 mm	± 0.05 mm	± 0.020 mm
Centering Tolerance	≤ 3 arc minutes	≤ 1 arc minutes	< 30 arc seconds
Surface Accuracy	2 lambda	lambda/4	lambda/10
Surface Quality (Scratch & Dig)	60/40	40/20 (20/10 on request)	10/5

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

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