

Aspherical Lenses

Product Information

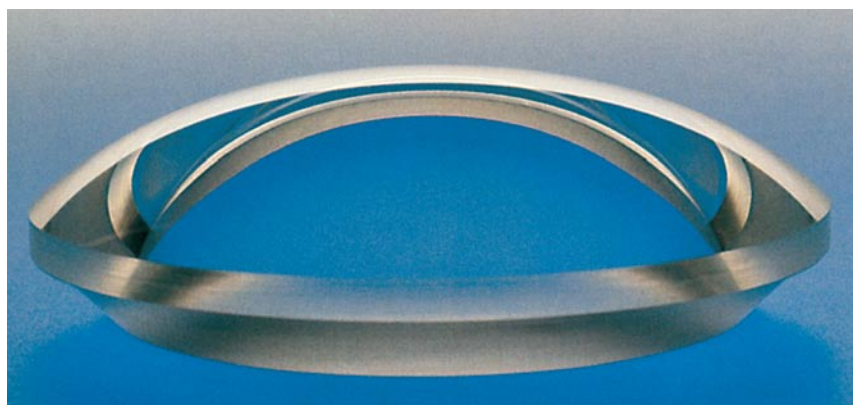
Due to the unique profile, aspherical lenses eliminate monochromatic aberrations (e.g. spherical aberrations) and lead to a better overall image quality. They are increasingly used to replace multi-spherical element assemblies resulting in a weight reduction as well as in a more compact design.

Advantages

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

Materials

- All types of optical glass
- Fused silica LITHOSIL®
- Other materials on request



Applications

- High power laser lenses collimation
- Focusing optics for Head Up Displays
- Endoscopy
- Microscopy
- Digital projection, camera, binocular

Attribute	RMF – polished			Molded (Low Tg glasses only)
	Commercial	Precision	High Precision	
Diameter	12–200 mm	12–180 mm	12–160 mm	1.5–40 mm
Diameter Tolerance*	±0.1 mm	±0.05 mm	±0.02 mm	±0.05 mm
Center Thickness*	1–40 mm	1–40 mm	1–40 mm	0.5–1.0 mm
Radius of Curvature Convex*	>10 mm	>10 mm	>20 mm	>3 mm
Radius of Curvature Concave*	On request	On request	On request	>5 mm
Tolerance on Radius of Curvature*	0.5 %	0.1 %	0.05 %	0.5 %
Surface Flatness (PV, Asph. Side)*	2 µm	0.5 µm	0.2 µm	<0.5 µm
Irregularity (PV)*	1 µm	0.2 µm	0.1 µm	–
Tilt from Asph. Side to Other Side*	<6 arc min	<3 arc min	<1 arc min	<1 arc min
Surface Roughness – Rq*	<5 nm	<3 nm	<1.5 nm	<15 nm
Surface Quality (Scratch & Dig) (5/NxA)*	60/40 5/6x0.25	40/20 5/3x0.25	10/5 5/3x0.025	40/20 5/3x0.16
Typical Volume*	From 1 piece to series production			>200 pcs
Delivery Time*	6 to 10 weeks			6 to 10 weeks

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

For more information please contact:

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