Optical Glass Rods for Miniaturized Ball Lenses, Discs & More

Fire Polished & Matt Rods from SCHOTT – lengths up to 1000 mm & diameters down to <1 mm

Product Information

Optical glass rods from SCHOTT for applications using small ball lenses or discs for consumer optics are produced by different unique hot forming processes covering the widest range of length, diameter and quality requirements.

Materials

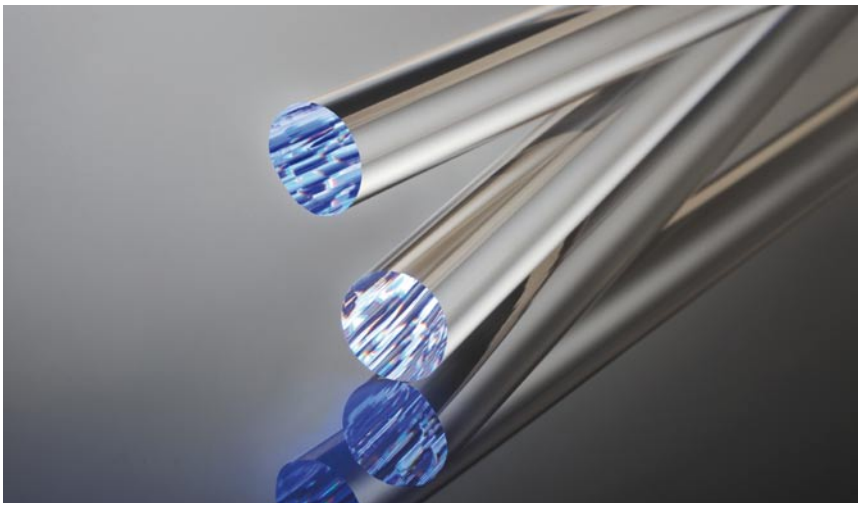
- Low Tg glass from SCHOTT
- High refractive index glass LASF35 (nd = 2.02204, vd = 29.06)
- Optical glass from SCHOTT
- Other glass types on request

Applications

- Pre-form for lens, disc or ball lens production
- Pre-form for rod lens

Supply Forms

- Matt rod
- Fire polished rod
- Development initiative offering customized shapes such as squares, prisms, rectangular, tubes, etc.



Rods of Optical Quality in diameters ranging from 0.1 mm to 12.5 mm

Advantages

- SCHOTT offers near-net-shape, small diameter rods, even below 1 mm thereby allowing significant cost decreases in processing
- Variable rod lengths up to 1000 mm for different diameters
- Fire polished surface suitable for selected applications
- Customized characteristics available concerning lengths, diameters and geometric shapes
- Flexible production enables short lead times and large batch sizes
- Available for a large variety of glass types

Specifications

	Fire polished rod		Matt rod	
Description	**Standard Quality**	**Premium Quality**	**Standard Quality**	**Premium Quality**
Diameter/Tolerance	± 5 % of nominal diameter	± 3 % of nominal diameter	± 0.1 mm	± 0.05 mm
Straigthness deviation	max. 0.1 mm/100 mm	max. 0.1 mm/100 mm	max. 0.05 mm/100 mm	max. 0.03 mm/100 mm
Length tolerance	+ 5 mm	+ 2 mm	+ 5 mm	+ 2 mm
Diameter range	0.1 – 7.0 mm	0.1 – 7.0 mm	2.0 – 12.5 mm	2.0 – 12.5 mm
Surface Quality	fire polished	fire polished	matt	matt
Length	up to 1000 mm		up to 150 mm	

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