

# Laser Windows

## Product Information

Windows are used in optical systems to protect lenses from dust or pollution – very high transmission, low absorption material and a low wavefront distortion are the key points for a laser window.

## Applications

Laser windows can be used in a variety of applications, e. g.

- High-Power laser
- Materials processing (welding)
- Lens protection after the focusing head
- Solid-State laser → Nd: YAG

## Advantages

- Customized design
- High quality consistency
- High laser damage threshold
- High accurate shape
- Low Scratch-Dig
- Low roughness

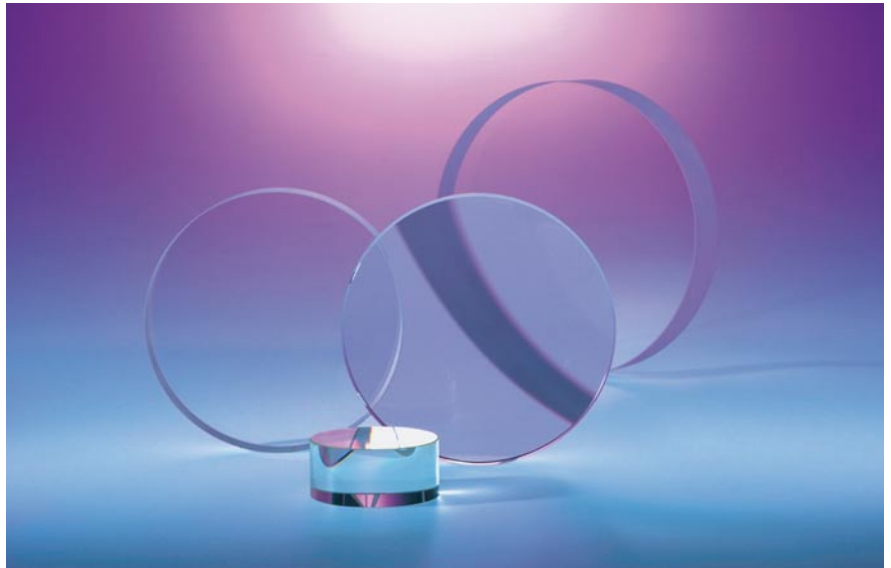
## Materials

All types of optical glass and Fused Silica LITHOSIL®

## Quality Assurance

Our quality control is based on self-checking during production and 100% final inspection.

A coating curve is delivered with the component.



## Specifications

Design Wavelength	350–2400 nm
Diameter	12.7–25.4 mm up to 300 mm, different shapes on request
Surface Quality (S-D)	10–5
Roughness	< 1 nm RMS
Parallelism	< 1 arc minute
Wavefront Distortion	< $\lambda/10$
Damage Threshold	> 10 J/cm <sup>2</sup> @ 1064 nm, single pulse, 650 ps
AR Coating	R < 0,5 %

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