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TECHSPEC® 12.7mm Dia., 6.35mm Thick, Superpolished Laser Window Substrate



TECHSPEC® Superpolished Substrates

Stock #11-554 **20+ In Stock**

⊖ 1 ⊕ €362.⁰⁰

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| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-10 | €362,00 each |
| Qty 11-25 | €319,00 each |
| Qty 26+ | €281,00 each |
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Laser Window Substrate **Type:**

Physical & Mechanical Properties

6.35 ±0.10 **Thickness (mm):**

Clear Aperture CA (mm):

11.43

Diameter (mm):
12.70 +0.00/-0.10

Clear Aperture (%):
90

Parallelism (arcsec):
<30

Bevel:
Protective as needed

Surface Roughness (□):
≤1 RMS as measured using an optical profiler using a 20x objective at a spatial frequency bandwidth of 9 to 250 cycles per mm

Edges:
Commercial Polish

Optical Properties

Substrate: □
[Fused Silica](#) (Corning 7980)

Index of Refraction (n_d):
1.458

Surface Quality:
10-5

Coating:
Uncoated

Abbe Number (v_d):
67.8

Wavelength Range (nm):
200 - 2200

Surface Flatness (P-V):
λ/10

Regulatory Compliance

Certificate of Conformance:
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Product Details

- Superpolished on Both Surfaces with ≤1Å RMS Surface Roughness
- Low Scatter Surfaces Ideal for UV or High Power Laser Applications
- UV Fused Silica Substrates with Polished Bevels and Edges
- [In-House Manufacturing](#) Enables Custom Sizes and Shapes from 6 to 76.2mm and Surface Roughness <0.5Å

TECHSPEC® Superpolished Substrates are superpolished on both surfaces to achieve superior surface specifications, including ≤1Å RMS surface roughness. The superpolished surfaces of these windows reduce scatter, making them ideal for UV or high power laser applications where scatter is a concern. The low scatter of these windows also allows for their use as substrates for ion-beam sputtering (IBS) coatings. TECHSPEC Superpolished Substrates are used in metrology applications including cavity-ring down spectroscopy, scatterometry, and in ring laser gyroscopes, as well as in UV medical applications such as eye surgery. Please [contact us](#) if your application requires a Superpolished Substrate with a custom size, if you are interested in [custom coating opportunities](#), or to discuss how these low scatter substrates will affect your coated optic performance. Single side superpolishing is also available.

Superpolished Optics for Minimized Scatter

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Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Compatible Mounts