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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
Need More?	Request Quote

ⓘ 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):

Diameter (mm):
12.70 +0.00/-0.10

Clear Aperture (%):
90

Parallelism (arcsec):
<30

Bevel:
Protective as needed

Surface Roughness (λ):
 ≤ 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):
 $\lambda/10$

Regulatory Compliance

Certificate of Conformance:
[View](#)

Need different specs or modifications?

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](#).

Product Details

- Superpolished on Both Surfaces with $\leq 1 \text{ \AA}$ 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 $< 0.5 \text{ \AA}$

TECHSPEC® Superpolished Substrates are superpolished on both surfaces to achieve superior surface specifications, including $\leq 1 \text{ \AA}$ 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

[Learn More](#)

Compatible Mounts