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**TECHSPEC® 50.8mm Dia., 9.53mm Thick, Superpolished Laser Window Substrate**



TECHSPEC® Superpolished Substrates

Stock #11-556 **13 In Stock**

⊖ 1 ⊕ €725<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | €725,00 each                  |
| Qty 11-25      | €645,00 each                  |
| Qty 26+        | €575,00 each                  |
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Laser Window Substrate **Type:**

**Physical & Mechanical Properties**

9.53 ±0.10 **Thickness (mm):**

**Clear Aperture CA (mm):**

45.72

**Diameter (mm):**  
50.80 +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<sub>d</sub>):**  
1.458

**Surface Quality:**  
10-5

**Coating:**  
Uncoated

**Abbe Number (v<sub>d</sub>):**  
67.8

**Wavelength Range (nm):**  
200 - 2200

**Surface Flatness (P-V):**  
λ/10

## Regulatory Compliance

**Certificate of Conformance:**  
[View](#)

## 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.



## 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