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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 ⊕ ₹52,160

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Volume Pricing	
Qty 1-10	₹52,160 each
Qty 11-25	₹46,321 each
Qty 26+	₹41,261 each
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**General**

Laser Window Substrate **Type:**

**Physical & Mechanical Properties**

9.53 ±0.10 **Thickness (mm):**

45.72 **Clear Aperture CA (mm):**

50.80 +0.00/-0.10	<b>Diameter (mm):</b>
90	<b>Clear Aperture (%):</b>
<30	<b>Parallelism (arcsec):</b>
Protective as needed	<b>Bevel:</b>
≤1 RMS as measured using an optical profiler using a 20x objective at a spatial frequency bandwidth of 9 to 250 cycles per mm	<b>Surface Roughness (□):</b>
Commercial Polish	<b>Edges:</b>

## Optical Properties

Fused Silica (Corning 7980)	<b>Substrate:</b> □
1.458	<b>Index of Refraction (n<sub>d</sub>):</b>
10-5	<b>Surface Quality:</b>
Uncoated	<b>Coating:</b>
67.8	<b>Abbe Number (v<sub>d</sub>):</b>
200 - 2200	<b>Wavelength Range (nm):</b>
λ/10	<b>Surface Flatness (P-V):</b>

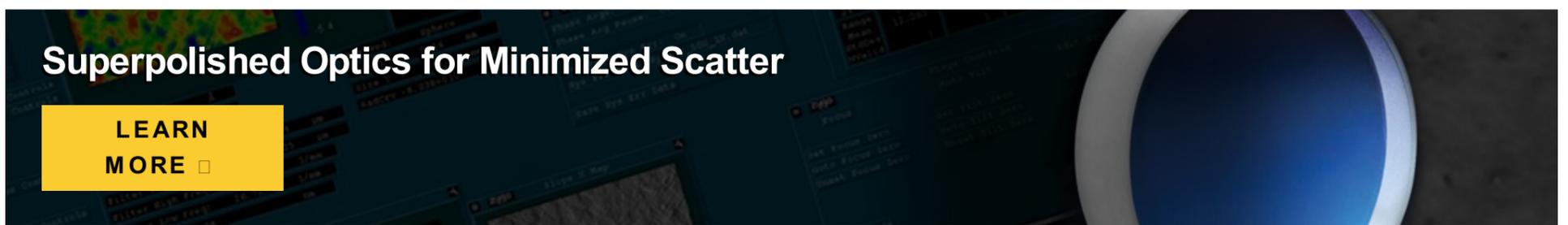
## Regulatory Compliance

<a href="#">View</a>	<b>Certificate of Conformance:</b>
Japan	<b>Country of Origin:</b>
Edmund Optics India Private Limited	<b>Imported By:</b>

## 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

