

[See all 4 Products in Family](#)

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



TECHSPEC® Superpolished Substrates

Stock #11-556 **20+ In Stock**

⊖ 1 ⊕ C\$1,015⁰⁰

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-10 | C\$1,015.00 each |
| Qty 11-25 | C\$903.00 each |
| Qty 26+ | C\$805.00 each |
| Need More? | Request Quote |

Product Downloads

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 | Diameter (mm): |
| 90 | Clear Aperture (%): |
| <30 | Parallelism (arcsec): |
| Protective as needed | Bevel: |
| 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 | |
| Commercial Polish | Edges: |

Optical Properties

| | |
|-----------------------------------|---|
| Fused Silica (Coming 7980) | Substrate: □ |
| 1.458 | Index of Refraction (n_d): |
| 10-5 | Surface Quality: |
| Uncoated | Coating: |
| 67.8 | Abbe Number (v_d): |
| 200 - 2200 | Wavelength Range (nm): |
| N10 | Surface Flatness (P-V): |

Regulatory Compliance

| | |
|----------------------|------------------------------------|
| View | Certificate of Conformance: |
|----------------------|------------------------------------|

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:

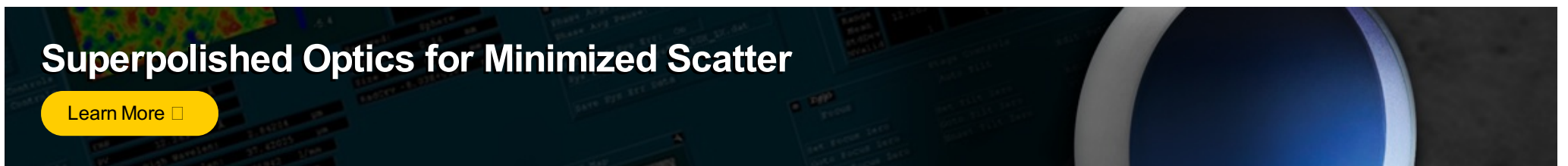
- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

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

Product Details

- Superpolished on Both Surfaces with ≤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.



Compatible Mounts