

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



TECHSPEC[®] Superpolished Substrates

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

-

1

+

€690¹⁰

ADD TO CART

Volume Pricing	
Qty 1-10	€690,10 each
Qty 11-25	€612,85 each
Qty 26+	€545,90 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Laser Window Substrate

Type:

Physical & Mechanical Properties	
45.72	Clear Aperture CA (mm):
50.80 +0.00/-0.10	Diameter (mm):
9.53 ±0.10	Thickness (mm):
Protective as needed	Bevel:
90	Clear Aperture (%):
<30	Parallelism (arcsec):
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	
Uncoated	Coating:
Fused Silica (Corning 7980)	Substrate: □
1.458	Index of Refraction (n _d):
10-5	Surface Quality:
67.8	Abbe Number (v _d):
200 - 2200	Wavelength Range (nm):
λ/10	Surface Flatness (P-V):

Regulatory Compliance	
View	Certificate of Conformance:

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

LEARN MORE □

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

