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TECHSPEC®

25.4mm Dia., 6.35mm Thick, Superpolished Laser Window Substrate



TECHSPEC® Superpolished Substrates

Stock **#11-555** 20+ In Stock

-

1

+

€481⁰⁰

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Volume Pricing	
Qty 1-10	€481,00 each
Qty 11-25	€427,00 each
Qty 26+	€378,00 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Laser Window Substrate

Physical & Mechanical Properties

Thickness (mm):

6.35 ±0.10

Clear Aperture CA (mm):

22.86	
	Diameter (mm):
25.40 +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 _d):
1.458	
	Surface Quality:
10-5	
	Coating:
Uncoated	
	Abbe Number (v _d):
67.8	
	Wavelength Range (nm):
200 - 2200	
	Surface Flatness (P-V):
λ/10	

Regulatory Compliance

	Certificate of Conformance:
View	

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](#).

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 □

Compatible Mounts