See all 4 Products in Family

TECHSPEC® 6.35mm Dia., 3.18mm Thick, Superpolished Laser Window Substrate

TECHSPEC® Superpolished Substrates

Stock **#11-553** **20+ In Stock**

- 1 + **A$536**.00

ADD TO CART

Volume Pricing	
Qty 1-10	**A$536.00** each
Qty 11-25	**A$475.20** each
Qty 26+	**A$424.00** each
Need More?	Request Quote

Product Downloads

General

Type:
Laser Window Substrate

Type of Window:
Glass

Physical & Mechanical Properties

Thickness (mm):
3.18 ±0.10

Diameter (mm):
6.35 +0.00/-0.10

Clear Aperture (%):
90

Parallelism (arcsec):
<30

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, protective bevel as needed

Optical Properties

Substrate:
Fused Silica (Corning 7980)

Surface Quality:
10-5

Coating:
Uncoated

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.

;