TECHSPEC® 25.4mm Dia., 6.35mm Thick, 1064nm, Nd:YAG IBS Laser Line Window

TECHSPEC® IBS Laser Line Windows

Stock **#12-989** **5 In Stock**

- 1 + **£142**.71

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Volume Pricing	
Qty 1-5	**£142.71** each
Qty 6-25	**£113.82** each
Qty 26-49	**£106.81** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:
Laser Line Window

Physical & Mechanical Properties

Clear Aperture CA (mm):
22.86

Diameter (mm):
25.40 +0.00/-0.10

Thickness (mm):
6.35 ±0.20

Parallelism (arcmin):
<3

Bevel:
Protective as needed

Clear Aperture (%):
90

Edges:
Fine Ground

Poisson's Ratio:
0.16

Young's Modulus (GPa):
73

Knoop Hardness (kg/mm^2):
522.00

Optical Properties

Angle of Incidence (°):
0

Coating:
Laser Ultra V-Coat, IBS (1064nm)

Design Wavelength DWL (nm):
1064

Substrate:
Fused Silica (Corning 7980)

Index of Refraction (n_d):
1.458

Surface Quality:
10-5

Abbe Number (v_d):
67.8

Coating Specification:
R_{abs} <0.10% @ 1064nm

Surface Flatness (P-V):
λ/10

Damage Threshold, Certified:
15 J/cm^2 @ 1064nm, 20ns, 20Hz

Material Properties

Density (g/cm^3):
2.20

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
0.52 (+5 to +35°C)
0.57 (0 to +200°C)
0.48 (-100 to +200°C)

Fused Silica Grade:
7980 0F

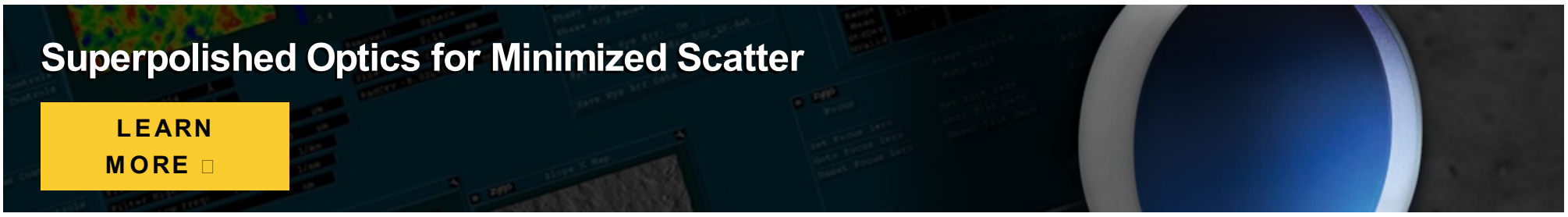
Regulatory Compliance

Certificate of Conformance:
View

PRODUCT DETAILS

- IBS Coated for Minimal Absorption and Scatter
- <0.1% Reflectivity at Nd:YAG Laser Lines
- Certified Laser Damage Thresholds at Design Wavelength

TECHSPEC® IBS Laser Line Windows feature an ion beam sputtering (IBS) anti-reflection coating that provides <0.1% reflectivity at their design wavelength with minimal losses due to absorption or scatter. The IBS coating process produces dense, homogeneous coating layers that are environmentally stable and insensitive to temperature and humidity changes, enabling these windows to be used in harsh environments. TECHSPEC IBS Laser Line Windows are available in standard imperial sizes with designs for the Nd:YAG laser wavelengths of 355nm, 532nm, and 1064nm. In-house manufacturing enables Edmund Optics to provide custom sizes and designs in the wavelength range 343nm to 1600nm.



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

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COMPATIBLE MOUNTS