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TECHSPEC® 50mm Dia. 1064nm Laser V-Coat, N20 Fused Silica Window



Uncoated N20 Fused Silica Window

Stock **#65-869** **5 In Stock**

⊖ 1 ⊕ €315⁰⁰

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Volume Pricing	
Qty 1-5	€315,00 each
Qty 6-25	€282,00 each
Qty 26-49	€250,00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Laser Line Window **Type:**

Glass **Type of Window:**

Physical & Mechanical Properties

Clear Aperture CA (mm):

45.00	Diameter (mm):
50.00 +0.00/-0.10	
	Thickness (mm):
3.00 ±0.10	
	Bevel:
Protective as needed	
	Clear Aperture (%):
90	
	Edges:
Fine Ground	
	Parallelism (arcsec):
≤5	
	Poisson's Ratio:
0.16	
	Young's Modulus (GPa):
73	
	Knoop Hardness (kg/mm²):
522.00	

Optical Properties

	Angle of Incidence (°):
0	
	Coating:
Laser V-Coat (1064nm)	
	Design Wavelength DWL (nm):
1064	
	Substrate: <input type="checkbox"/>
Fused Silica Excimer Grade (Corning 7980 KrF)	
	Index of Refraction (n_d):
1.458	
	Surface Quality:
10-5	
	Transmitted Wavefront, P-V:
λ/20	
	Abbe Number (v_d):
67.8	
	Coating Specification:
R _{abs} <0.25% @ 1064nm	
	Damage Threshold, By Design: <input type="checkbox"/>
10 J/cm ² @ 10ns	

Material Properties

	Density (g/cm³):
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 KrF 0A	

Regulatory Compliance

Compliant	RoHS 2015:
Compliant	REACH 201:
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

- R < 0.25% for 266nm, 355nm, 532nm or 1064nm
- Low Auto-Fluorescence
- Damage Thresholds up to 10 J/cm² @ 10ns @ 1064nm

TECHSPEC® λ/20 High Power Laser Line Windows features a high efficiency, high damage threshold V-coating to maximize transmission at the design wavelength. Damage thresholds ranging from 2 - 10J/cm² allow easy integration into most Nd:YAG laser systems. The coating is deposited on a precision excimer grade UV grade fused silica substrate for excellent thermal stability, low wavefront distortion, and ultra-low auto-fluorescence. TECHSPEC® λ/20 High Power Laser Line Windows are available in diameters ranging from 5 to 50mm. For custom options or wedged versions, please contact our [Sales Department](#).



Technical Information



Compatible Mounts