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



Uncoated N20 Fused Silica Window

Stock **#65-869** **6 In Stock**

⊖ 1 ⊕ €315<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	€315,00 each
Qty 6-25	€282,00 each
Qty 26-49	€250,00 each
Need More?	<a href="#">Request Quote</a>

ⓘ 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	<b>Diameter (mm):</b>
50.00 +0.00/-0.10	
	<b>Thickness (mm):</b>
3.00 ±0.10	
	<b>Bevel:</b>
Protective as needed	
	<b>Clear Aperture (%):</b>
90	
	<b>Edges:</b>
Fine Ground	
	<b>Parallelism (arcsec):</b>
≤5	
	<b>Poisson's Ratio:</b>
0.16	
	<b>Young's Modulus (GPa):</b>
73	
	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>
522.00	

## Optical Properties

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

## Material Properties

	<b>Density (g/cm<sup>3</sup>):</b>
2.20	
	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
0.52 (+5 to +35°C)	
0.57 (0 to +200°C)	
0.48 (-100 to +200°C)	
	<b>Fused Silica Grade:</b>
7980 KrF 0A	

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>REACH 201:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

### 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/cm<sup>2</sup> @ 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/cm<sup>2</sup> 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