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50.8mm Dia., 5mm Thick, Uncoated, ISP Optics IR Fused Silica Window | QI-W-50-5

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Stock #24-589 CLEARANCE **15 In Stock**

€207⁹⁵

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Qty 1+	€207,95 each
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General

QI-W-50-5 Model Number:

Protective Window Type:

Glass Type of Window:

Physical & Mechanical Properties

Clear Aperture CA (mm):

43.18	Diameter (mm):
50.80 +0.00/-0.13	
	Thickness (mm):
5.00 ±0.13	
	Parallelism (arcmin):
<3	
	Bevel:
Protective as needed	
	Clear Aperture (%):
85	
	Edges:
Fine Ground	
	Poisson's Ratio:
0.16	
	Young's Modulus (GPa):
73	
	Knoop Hardness (kg/mm²):
522.00	

Optical Properties

	Coating:
Uncoated	
	Substrate: <input type="checkbox"/>
Fused Silica	
	Index of Refraction (n_d):
1.458	
	Surface Quality:
40-20	
	Abbe Number (v_d):
67.8	
	Wavelength Range (nm):
200 - 3500	
	Surface Flatness (P-V):
1λ	

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:
7979 0G	

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

Product Details

- Excellent Thermal Stability
- Low Auto-Fluorescence
- IR Grade Fused Silica

ISP Optics Fused Silica Windows feature high transmission across the Ultraviolet (UV), Visible (VIS), and Infrared (IR) spectrum with IR Grade substrates extending up to 3500nm with no absorption bands. Fused Silica is a commonly used material for precision optics due to its consistent and repeatable optical performance. In addition, fused silica features a low coefficient of thermal expansion that provides high thermal stability and resistance to thermal shock. ISP Optics Fused Silica Windows provide extremely low fluorescence, making them ideal for a wide range of UV and IR laser applications.