

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

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1

+

€207⁹⁵

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General

QI-W-50-5	Model Number:
Protective Window	Type:

Physical & Mechanical Properties

43.18	Clear Aperture CA (mm):
	Diameter (mm):

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

Optical Properties

Uncoated	Coating:
Fused Silica	Substrate: ☐
1.458	Index of Refraction (n _d):
40-20	Surface Quality:
67.8	Abbe Number (v _d):
200 - 3500	Wavelength Range (nm):
1λ	Surface Flatness (P-V):

Material Properties

2.20	Density (g/cm³):
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
7979 0G	Fused Silica Grade:

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.