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12.7mm Dia., 2mm Thick, Uncoated, ISP Optics IR Fused Silica Window | QI-W-12-2

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Stock #24-583 CLEARANCE 6 In Stock

- 1 + S$128.73

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General

Model Number:
QI-W-12-2

Type:
Protective Window

Type of Window:
Glass

Physical & Mechanical Properties

Clear Aperture CA (mm):
10.79

Diameter (mm):
12.70 +0.00/-0.13

Thickness (mm):
2.00 ±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/mm^2):
522.00

Optical Properties

Coating:
Uncoated

Substrate:
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/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:
7979 0G

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 240:
Compliant

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.

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