63.5mm Dia., 8mm Thick, Uncoated, ISP Optics IR Fused Silica Window | QI-W-63-8

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Stock **#24-591** CLEARANCE **2 In Stock**

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SPECIFICATIONS

General

Type:
Protective Window

Model Number:
QI-W-63-8

Physical & Mechanical Properties

Bevel:
Protective as needed

Clear Aperture (%):
85

Clear Aperture CA (mm):
53.97

Diameter (mm):
63.50 +0.00/-0.13

Thickness (mm):
8.00 ±0.13

Edges:
Fine Ground

Knoop Hardness (kg/mm^2):
522.00

Parallelism (arcmin):
<3

Poisson's Ratio:
0.16

Young's Modulus (GPa):
73

Optical Properties

Abbe Number (v_d):
67.8

Coating:
Uncoated

Index of Refraction (n_d):
1.458

Substrate:
Fused Silica

Surface Flatness (P-V):
1λ

Surface Quality:
40-20

Wavelength Range (nm):
200 - 3500

Material Properties

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)

Density (g/cm^3):
2.20

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.