

# 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**

⊖ 1 ⊕ A\$332<sup>72</sup>

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**General**

QI-W-50-5 **Model Number:**

Protective Window **Type:**

Glass **Type of Window:**

**Physical & Mechanical Properties**

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

|                      |  |
|----------------------|--|
| 50.80 +0.00/-0.13    | <b>Diameter (mm):</b>                      |
| 5.00 ±0.13           | <b>Thickness (mm):</b>                     |
| <3                   | <b>Parallelism (arcmin):</b>               |
| Protective as needed | <b>Bevel:</b>                              |
| 85                   | <b>Clear Aperture (%):</b>                 |
| Fine Ground          | <b>Edges:</b>                              |
| 0.16                 | <b>Poisson's Ratio:</b>                    |
| 73                   | <b>Young's Modulus (GPa):</b>              |
| 522.00               | <b>Knoop Hardness (kg/mm<sup>2</sup>):</b> |

## Optical Properties

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

## Material Properties

|   |   |
|---|---|
| 2.20  | <b>Density (g/cm<sup>3</sup>):</b>                                |
| 0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C) | <b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b> |
| 7979 0G   | <b>Fused Silica Grade:</b>  |

## Regulatory Compliance

|                           |                                    |
|---------------------------|------------------------------------|
| <a href="#">Compliant</a> | <b>RoHS 2015:</b>                  |
| <a href="#">View</a>      | <b>Certificate of Conformance:</b> |
| <a href="#">Compliant</a> | <b>Reach 240:</b>                  |

## 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.