

[See all 7 Products in Family](#)

# 12.7mm Dia., 1mm Thick, Uncoated, ISP Optics IR Fused Silica Window | QI-W-12-1

See More by [ISP Optics](#)



Stock #24-582 CLEARANCE **2 In Stock**

€91<sup>00</sup>

ADD TO CART

Volume Pricing	
Qty 1+	€91,95 each
Need More?	<a href="#">Request Quote</a>

**!** Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

QI-W-12-1 **Model Number:**

Protective Window **Type:**

Glass **Type of Window:**

**Physical & Mechanical Properties**

**Clear Aperture CA (mm):**

10.79	
12.70 +0.00/-0.13	<b>Diameter (mm):</b>
1.00 ±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.