

[All Products](#) / [Optics](#) / [Windows and Diffusers](#) / [UV and IR Windows](#)

$\lambda/10$ Infrared (IR) Fused Silica Windows



- IR Grade Fused Silica Substrates
- Broad Transmission Range from 200 – 3500nm
- $\lambda/10$ Transmitted Wavefront Distortion
- Excellent Thermal Stability

Common Specifications

General

Type of Window: Glass

Physical & Mechanical Properties

Bevel: Protective as needed

Clear Aperture (%): 90

Edges: Fine Ground

Parallelism (arcsec): <5

Poisson's Ratio: 0.17

Young's Modulus (GPa): 73

Knoop Hardness (kg/mm²): 522.00

Optical Properties

Coating: Uncoated

Substrate: IR Fused Silica

Index of Refraction (n_d): 1.458

Surface Quality: 20-10

Abbe Number (v_d): 67.8

Wavelength Range (nm): 200 - 3500

Material Properties

Density (g/cm³): 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)

Technical Information

Products

Title	Stock Number	Price	Buy
12.7mm Dia., 1mm Thick, Uncoated, λ/10 IR Fused Silica Window	#70-103	€126,00 Volume Pricing	Contact Us
12.7mm Dia., 2mm Thick, Uncoated, λ/10 IR Fused Silica Window	#70-104	€126,00 Volume Pricing	11 In Stock
25.4mm Dia., 1mm Thick, Uncoated, λ/10 IR Fused Silica Window	#70-105	€149,00 Volume Pricing	20+ In Stock
25.4mm Dia., 2mm Thick, Uncoated, λ/10 IR Fused Silica Window	#70-106	€149,00 Volume Pricing	10 In Stock
25.4mm Dia., 3mm Thick, Uncoated, λ/10 IR Fused Silica Window	#70-107	€149,00 Volume Pricing	6 In Stock
38.1mm Dia., 3mm Thick, Uncoated, λ/10 IR Fused Silica Window	#70-108	€229,00 Volume Pricing	Contact Us
50.8mm Dia., 1mm Thick, Uncoated, λ/10 IR Fused Silica Window	#70-109	€286,00 Volume Pricing	14 In Stock
50.8mm Dia., 3mm Thick, Uncoated, λ/10 IR Fused Silica Window	#70-110	€286,00 Volume Pricing	20+ In Stock
76.2mm Dia., 6mm Thick, Uncoated, λ/10 IR Fused Silica Window	#70-111	€715,00 Volume Pricing	20+ In Stock



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