

50.8mm Dia., 1mm Thick, Uncoated, λ /10 IR Fused Silica Window



Stock **#70-109** **14 In Stock**

-

1

+

£228^{.80}

ADD TO CART

Volume Pricing	
Qty 1-5	£228.80 each
Qty 6-25	£183.20 each
Qty 26-49	£171.20 each
Need More?	Request Quote

!

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):

45.72

Diameter (mm):

50.80 +0.00/-0.20

1.00 ±0.10	Thickness (mm):
Protective as needed	Bevel:
90	Clear Aperture (%):
Fine Ground	Edges:
<5	Parallelism (arcsec):
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):
522.00	Knoop Hardness (kg/mm²):

Optical Properties

Uncoated	Coating:
IR Fused Silica	Substrate: □
1.458	Index of Refraction (n _d):
20-10	Surface Quality:
<i>N</i> 10	Transmitted Wavefront, P-V:
67.8	Abbe Number (v _d):
200 - 3500	Wavelength Range (nm):

Material Properties

2.20	Density (g/cm³):
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):

Regulatory Compliance

View	Certificate of Conformance:
----------------------	-----------------------------

Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- IR Grade Fused Silica Substrates
- Broad Transmission Range from 200 – 3500nm
- N*10 Transmitted Wavefront Distortion
- Excellent Thermal Stability

*N*10 Infrared (IR) Fused Silica Windows feature 20-10 surface quality, <5 arcsec parallelism, and broad transmission from 200 – 3500nm without absorption bands common in other fused silica materials. These fused silica windows offer superior transmission characteristics and a low coefficient of thermal expansion that provides high thermal stability and resistance to thermal shock. *N*10 Infrared (IR) Fused Silica Windows feature laser grade specifications and are available in a variety of diameter and thickness options. These windows are ideal for FLIR, FTIR spectroscopy, medical systems, and thermal imaging applications.