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## 38.1mm Dia., 3mm Thick, Uncoated, $\lambda/10$ IR Fused Silica Window



Stock **#70-108** 1 In Stock

-

1

+

C\$320<sup>.60</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$320.60 each                |
| Qty 6-25       | C\$256.20 each                |
| Qty 26-49      | C\$239.40 each                |
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Product Downloads

General

Protective Window

Type:

Physical & Mechanical Properties

Protective as needed

Bevel:

90

Clear Aperture (%):

|                   |                          |
|-------------------|--------------------------|
| 34.29             | Clear Aperture CA (mm):  |
| 38.10 +0.00/-0.20 | Diameter (mm):           |
| 3.00 ±0.10        | Thickness (mm):          |
| Fine Ground       | Edges:                   |
| 522.00            | Knoop Hardness (kg/mm²): |
| <5                | Parallelism (arcsec):    |
| 0.16              | Poisson's Ratio:         |
| 73                | Young's Modulus (GPa):   |

Optical Properties

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

Material Properties

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

Regulatory Compliance

|                      |                             |
|----------------------|-----------------------------|
| <a href="#">View</a> | Certificate of Conformance: |
|----------------------|-----------------------------|

## Product Details

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

λ/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. λ/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.

## 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](#).