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50mm Dia., 3mm Thick, NIR II Coated, Suprasil Window



Suprasil® Windows

Stock **#25-594** **7 In Stock**

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1

+

C\$603⁴⁰

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Volume Pricing	
Qty 1-5	C\$603.40 each
Qty 6-25	C\$483.00 each
Qty 26-49	C\$453.60 each
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Product Downloads

General	
Protective Window	Type:
Physical & Mechanical Properties	
45.00	Clear Aperture CA (mm):
50.00 +0.00/-0.10	Diameter (mm):

3.00 ±0.10	Thickness (mm):
Protective as needed	Bevel:
90	Clear Aperture (%):
Fine Ground	Edges:
<5	Parallelism (arcsec):
0.17	Poisson's Ratio:
70	Young's Modulus (GPa):
591.00	Knoop Hardness (kg/mm²):

Optical Properties	
NIR II (750 - 1550nm)	Coating:
Suprasil® 300	Substrate: ☐
1.459	Index of Refraction (n _d):
10-5	Surface Quality:
λ/10	Transmitted Wavefront, P-V:
67.8	Abbe Number (v _d):
Coating Specification: R _{abs} ≤1.5% @ 750 - 800nm R _{abs} ≤1.0% @ 800 - 1550nm R _{avg} ≤0.7% @ 750 - 1550nm	
750 - 1550	Wavelength Range (nm):

Material Properties	
2.20	Density (g/cm³):
Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C): 0.51 (0 to +100°C) 0.58 (0 to +200°C)	

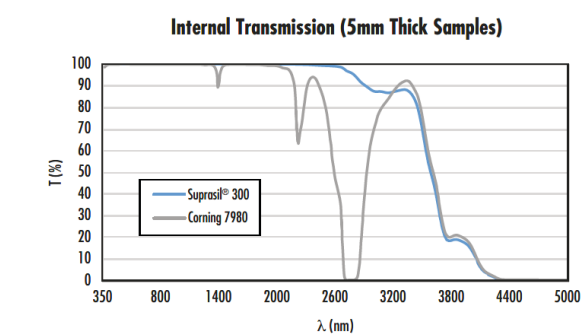
Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- High Transmission from 200 to 3500nm
- <1 ppm OH Content for Minimal Absorption Losses
- 10-5 Surface Quality and up to λ/10 TWD

Suprasil® Windows are constructed from high purity synthetic fused silica and provide high, flat transmission from 200 to 3500nm. Suprasil has similar mechanical properties to fused silica with the added benefit of having no absorption bands in the visible or infrared spectra, resulting in no transmission loss between 1400 - 2700nm. Compared to Infrasil®, Suprasil has lower absorption with a <1 ppm OH content, causing negligible increase in temperature from bulk absorption when used with high powered lasers. Suprasil Windows are ideal for laser material processing, medical laser applications, or applications using Nd:doped or 2 micron lasers.

Technical Information



Compatible Mounts

