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12.5mm Dia., 2mm Thick, NIR II Coated, Suprasil Window

Suprasil® Windows

Stock **#25-588** **4 In Stock**

- 1 + **£126.40**

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Volume Pricing	
Qty 1-5	**£126.40** each
Qty 6-25	**£100.80** each
Qty 26-49	**£94.40** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Protective Window

Physical & Mechanical Properties

Bevel:

Protective as needed

Clear Aperture (%):

90

Clear Aperture CA (mm):
11.25

Diameter (mm):
12.50 +0.00/-0.10

Thickness (mm):
2.00 ±0.10

Edges:
Fine Ground

Knoop Hardness (kg/mm^2):
591.00

Parallelism (arcsec):
<5

Poisson's Ratio:
0.17

Young's Modulus (GPa):
70

Optical Properties

Abbe Number (v_d):
67.8

Coating:
NIR II (750 - 1550nm)

Coating Specification:
R_{abs} ≤1.5% @ 750 - 800nm
R_{abs} ≤1.0% @ 800 - 1550nm
R_{avg} ≤0.7% @ 750 - 1550nm

Index of Refraction (n_d):
1.459

Substrate:
Suprasil® 300

Surface Quality:
10-5

Transmitted Wavefront, P-V:
λ/10

Wavelength Range (nm):
750 - 1550

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
0.51 (0 to +100°C)
0.58 (0 to +200°C)

Density (g/cm^3):
2.20

Regulatory Compliance

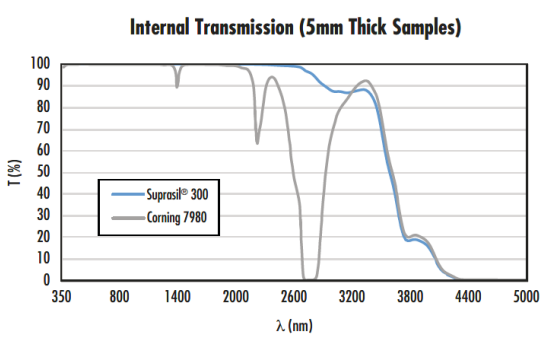
Certificate of Conformance:
View

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