50 x 50mm, 2mm Thick, Uncoated, Suprasil Window

Suprasil® Windows

Stock **#89-620** NEW CONTACT US

- 1 + **€345**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**€345,00** each
Qty 6-25	**€276,00** each
Qty 26-49	**€258,75** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:	Protective Window

Physical & Mechanical Properties

Bevel:
Protective as needed

Clear Aperture (%):
90

Clear Aperture CA (mm):
45 x 45

Dimensions (mm):
50 x 50 +0/-0.1

Thickness (mm):
3.00 ±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:
Uncoated

Index of Refraction (n_d):
1.459

Substrate:
Suprasil® 300

Surface Quality:
10-5

Transmitted Wavefront, P-V:
λ/10 per inch

Wavelength Range (nm):
200 - 3500

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):
2.2

Regulatory Compliance

RoHS 2015:
Compliant

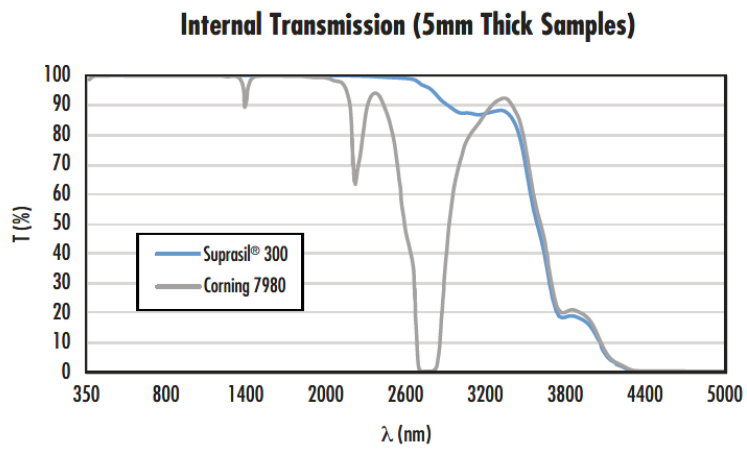
Certificate of Conformance:
View

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


Internal Transmission (5mm Thick Samples)
T (%)
100
90
80
70
60
50
40
30
20
10
0
350
800
1400
2000
2600
3200
3800
4400
5000
λ (nm)
Suprasil® 300
Corning 7980