

50.8mm Dia., 3mm Thick, Uncoated, Suprasil Window



Suprasil® Windows

Stock **#89-597** NEW [CONTACT US](#)

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+

S\$500²⁵

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Volume Pricing	
Qty 1-5	S\$500.25 each
Qty 6-25	S\$400.20 each
Qty 26-49	S\$375.19 each
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SPECIFICATIONS

General

Protective Window

Type:

Physical & Mechanical Properties

Protective as needed	Bevel:
90	Clear Aperture (%):
45.72	Clear Aperture CA (mm):
50.80 +0/-0.1	Diameter (mm):
3.00 ±0.10	Thickness (mm):
Fine Ground	Edges:
591.00	Knoop Hardness (kg/mm²):
<5	Parallelism (arcsec):
0.17	Poisson's Ratio:
70	Young's Modulus (GPa):
Optical Properties	
67.8	Abbe Number (v _d):
Uncoated	Coating:
1.459	Index of Refraction (n _d):
Suprasil® 300	Substrate:
10-5	Surface Quality:
λ/10	Transmitted Wavefront, P-V:
200 - 3500	Wavelength Range (nm):
Material Properties	
Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C): 0.51 (0 to +100°C) 0.58 (0 to +200°C)	
2.2	Density (g/cm³):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:

PRODUCT DETAILS

- High Transmission from 200 to 3500nm
- <1 ppm OH Content for Mnimal 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

