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



Suprasil® Windows

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

1 MRP ₹35,418

Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹35,418 each
Qty 6-25	₹28,334 each
Qty 26-49	₹26,563 each
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General

Protective Window **Type:**

Physical & Mechanical Properties

45.72 **Clear Aperture CA (mm):**

Diameter (mm):

50.80 +0/-0.1

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

Uncoated **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):**

200 - 3500 **Wavelength Range (nm):**

Material Properties

2.2 **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

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

Vietnam **Country of Origin:**

Imported By:
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

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)

