See all 36 Products in Family

# 100mm Dia., 3mm Thick, Uncoated, Suprasil Window

Suprasil® Windows

Stock **#89-599** NEW CONTACT US

- 1 + **S$1,834**.25

**ADD TO CART**

| Volume Pricing | |
|---|---|
| Qty 1-5 | **S$1,834.25** each |
| Qty 6-25 | **S$1,467.40** each |
| Qty 26-49 | **S$1,375.69** each |
| Need More? | Request Quote |

Product Downloads

## General

**Type:**

Protective Window

## Physical & Mechanical Properties

**Clear Aperture CA (mm):**

90

**Diameter (mm):**

100.00 +0/-0.2

**Thickness (mm):**
3.00 ±0.10

**Bevel:**
Protective as needed

**Clear Aperture (%):**
90

**Edges:**
Fine Ground

**Parallelism (arcsec):**
<5

**Poisson's Ratio:**
0.17

**Young's Modulus (GPa):**
70

**Knoop Hardness (kg/mm$^2$):**
591.00

## Optical Properties

**Coating:**
Uncoated

**Substrate:**
Suprasil® 300

**Index of Refraction ($n_d$):**
1.459

**Surface Quality:**
20-10

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

**Abbe Number ($v_d$):**
67.8

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

## Material Properties

**Density (g/cm$^3$):**
2.2

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

## Regulatory Compliance

**RoHS 2015:**
Compliant

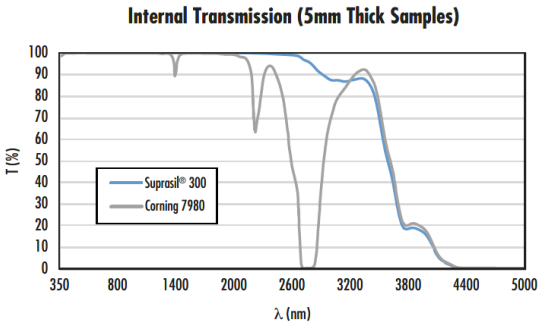
**Certificate of Conformance:**
View

# 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




;