

## 25mm Dia., 2mm Thick, NIR II Coated Suprasil Window



Suprasil® Windows

Stock **#25-591** **3 In Stock**

-

1

+

S\$244<sup>93</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | <b>S\$244.93</b> each         |
| Qty 6-25       | <b>S\$195.65</b> each         |
| Qty 26-49      | <b>S\$183.70</b> each         |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

### SPECIFICATIONS

General

Protective Window

Type:

Physical & Mechanical Properties

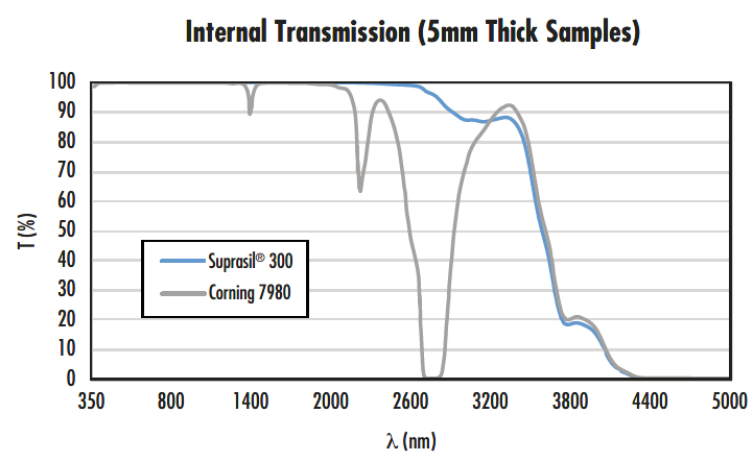
|                                                                                                                                                  |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|                                                                                                                                                  |                                        |
| Protective as needed                                                                                                                             | Bevel:                                 |
| 90                                                                                                                                               | Clear Aperture (%):                    |
|                                                                                                                                                  |                                        |
| 22.50                                                                                                                                            | Clear Aperture CA (mm):                |
|                                                                                                                                                  |                                        |
| 25.00 +0.00/-0.10                                                                                                                                | Diameter (mm):                         |
|                                                                                                                                                  |                                        |
| 2.00 ±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 <sub>d</sub> ):         |
|                                                                                                                                                  |                                        |
| NIR II (750 - 1550nm)                                                                                                                            | Coating:                               |
|                                                                                                                                                  |                                        |
| Coating Specification:<br>R <sub>abs</sub> ≤1.5% @ 750 - 800nm<br>R <sub>abs</sub> ≤1.0% @ 800 - 1550nm<br>R <sub>avg</sub> ≤0.7% @ 750 - 1550nm |                                        |
|                                                                                                                                                  |                                        |
| 1.459                                                                                                                                            | Index of Refraction (n <sub>d</sub> ): |
|                                                                                                                                                  |                                        |
| Suprasil® 300                                                                                                                                    | Substrate:                             |
|                                                                                                                                                  |                                        |
| 10-5                                                                                                                                             | Surface Quality:                       |
|                                                                                                                                                  |                                        |
| λ/10                                                                                                                                             | Transmitted Wavefront, P-V:            |
|                                                                                                                                                  |                                        |
| 750 - 1550                                                                                                                                       | Wavelength Range (nm):                 |
|                                                                                                                                                  |                                        |
| Material Properties                                                                                                                              |                                        |
|                                                                                                                                                  |                                        |
| Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C):<br>0.51 (0 to +100°C)<br>0.58 (0 to +200°C)                                         |                                        |
|                                                                                                                                                  |                                        |
| 2.20                                                                                                                                             | Density (g/cm³):                       |
|                                                                                                                                                  |                                        |
| Regulatory Compliance                                                                                                                            |                                        |
|                                                                                                                                                  |                                        |
| <a href="#">View</a>                                                                                                                             | 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



## COMPATIBLE MOUNTS