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# 25.4mm Dia., 1mm Thick, BBAR (1650-3000nm) Coated, Suprasil Window

Suprasil® Windows

Stock **#21-248** **5 In Stock**

- 1 + **€197**.00

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| Volume Pricing | |
|---|---|
| Qty 1-5 | **€197,00** each |
| Qty 6-25 | **€157,00** each |
| Qty 26-49 | **€147,00** each |
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Prices shown are exclusive of VAT/local taxes

Product Downloads

## General

**Type:**
Protective Window

**Type of Window:**
Glass

## Physical & Mechanical Properties

**Clear Aperture CA (mm):**

22.86

**Diameter (mm):**
25.40 +0.00/-0.10

**Thickness (mm):**
1.00 ±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:**
BBAR (1650-3000nm)

**Substrate:**
Suprasil® 300

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

**Surface Quality:**
10-5

**Transmitted Wavefront, P-V:**
λ/10

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

**Coating Specification:**
$R_{avg}$ <1% @ 1650 - 3000nm
$R_{abs}$ <2% @ 1650 - 3000nm

**Wavelength Range (nm):**
1650 - 3000

## Material Properties

**Density (g/cm$^3$):**
2.20

**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

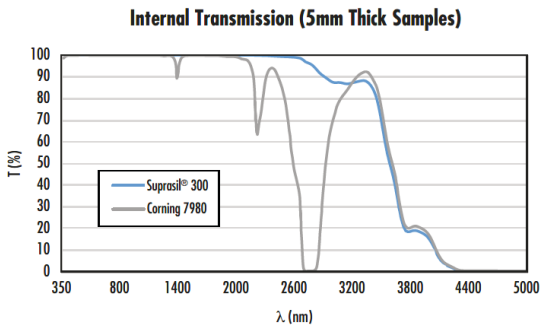
**Reach 235:**
Compliant

# 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




## Compatible Mounts

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