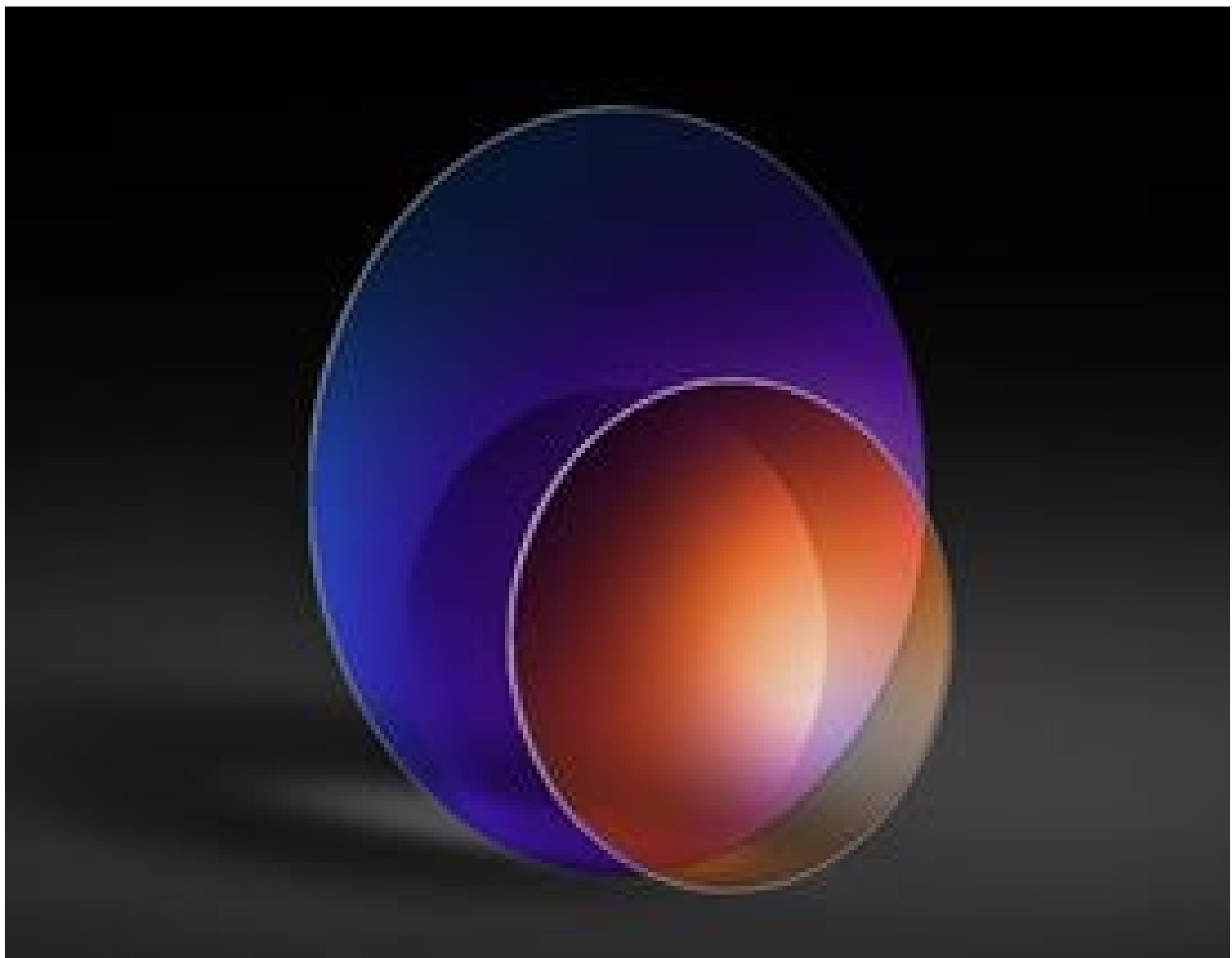


**TECHSPEC® 5mm Diameter VIS-NIR Coated, Ultra Thin Fused Silica Window**Stock #24-241 [CONTACT US](#)[-](#) [1](#) [+](#) **A\$276<sup>.80</sup>**[ADD TO CART](#)

Volume Pricing	
Qty 1-5	A\$276.80 each
Qty 6-25	A\$220.80 each
Qty 26-49	A\$206.40 each
Need More?	<a href="#">Request Quote</a>

## Product Downloads

**SPECIFICATIONS****General**

Type:

Protective Window

**Physical & Mechanical Properties**

Protective as needed  
**Bevel:**

4.25  
**Clear Aperture CA (mm):**

5.00 +0.00/-0.10  
**Diameter (mm):**

0.20 ±0.025  
**Thickness (mm):**

Fine Ground  
**Edges:**

522.00  
**Knoop Hardness (kg/mm<sup>2</sup>):**

<1  
**Parallelism (arcsec):**

0.16  
**Poisson's Ratio:**

73  
**Young's Modulus (GPa):**

## Optical Properties

64.17  
**Abbe Number (v<sub>d</sub>):**

VIS-NIR (400-1000nm)  
**Coating:**

R<sub>abs</sub> ≤0.25% @ 880nm  
R<sub>avg</sub> ≤1.25% @ 400 - 870nm  
R<sub>avg</sub> ≤1.25% @ 890 - 1000nm  
**Coating Specification:**

1.458  
**Index of Refraction (n<sub>d</sub>):**

Fused Silica (Coming 7980)  
**Substrate:**

60-40  
**Surface Quality:**

N/2  
**Transmitted Wavefront, P-V:**

400 - 1000  
**Wavelength Range (nm):**

5 J/cm<sup>2</sup> @ 532nm, 10ns  
**Damage Threshold, Reference:**

## Material Properties

0.52 (+5 to +35°C)  
0.57 (0 to +200°C)  
0.48 (-100 to +200°C)  
**Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):**

2.20  
**Density (g/cm<sup>3</sup>):**

## Regulatory Compliance

Compliant  
**RoHS 2015:**

View  
**Certificate of Conformance:**

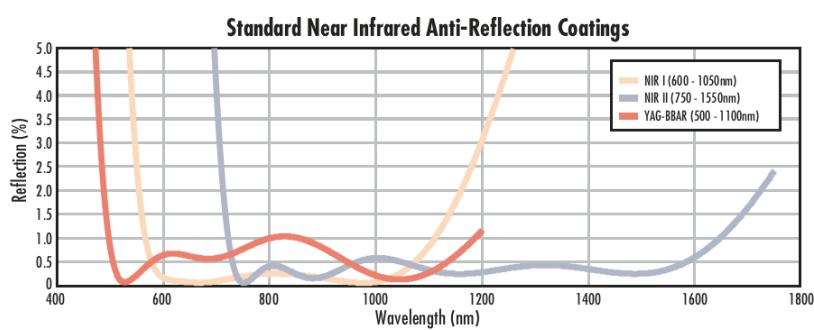
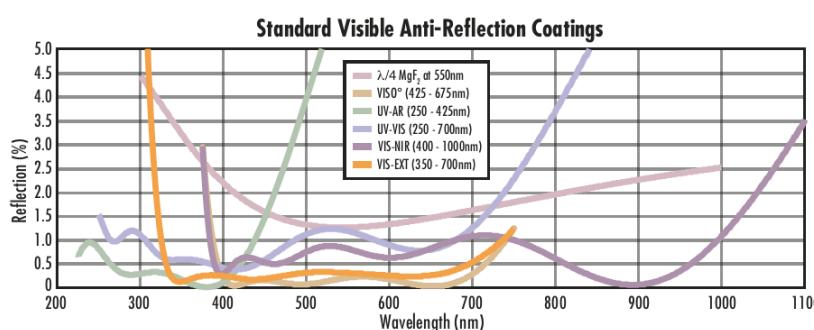
Compliant  
**Reach 235:**

## PRODUCT DETAILS

- Ultra-Thin 0.20mm Thickness
- UV Fused Silica Substrates
- Extremely Lightweight

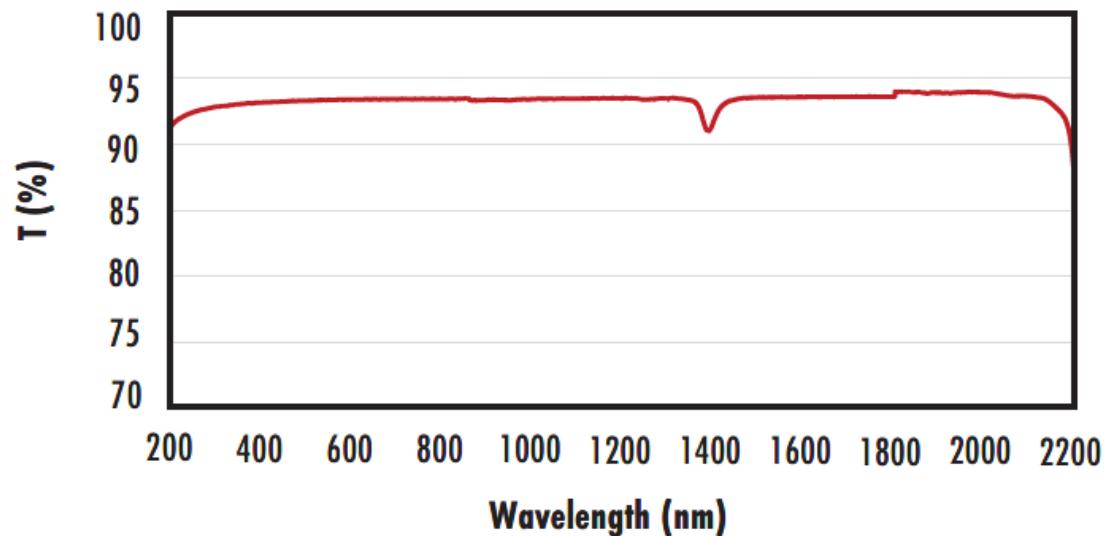
TECHSPEC® Ultra-Thin Fused Silica Windows provide the benefits of fused silica including low thermal expansion, excellent chemical resistance, and UV transmission with a thickness less than 1/5th of our standard fused silica windows. Unlike traditional cover glass, these windows have polished surfaces to provide consistent transmitted wavefront distortion, making them advantageous for OEM applications. Their extremely thin designs make them ideal for both weight and size sensitive applications, especially those requiring broadband transmission from the UV to the NIR. TECHSPEC Ultra-Thin Fused Silica Windows are ideal for handheld medical devices, wearable technology, and portable UV lights.

## TECHNICAL INFORMATION



## FUSED SILICA

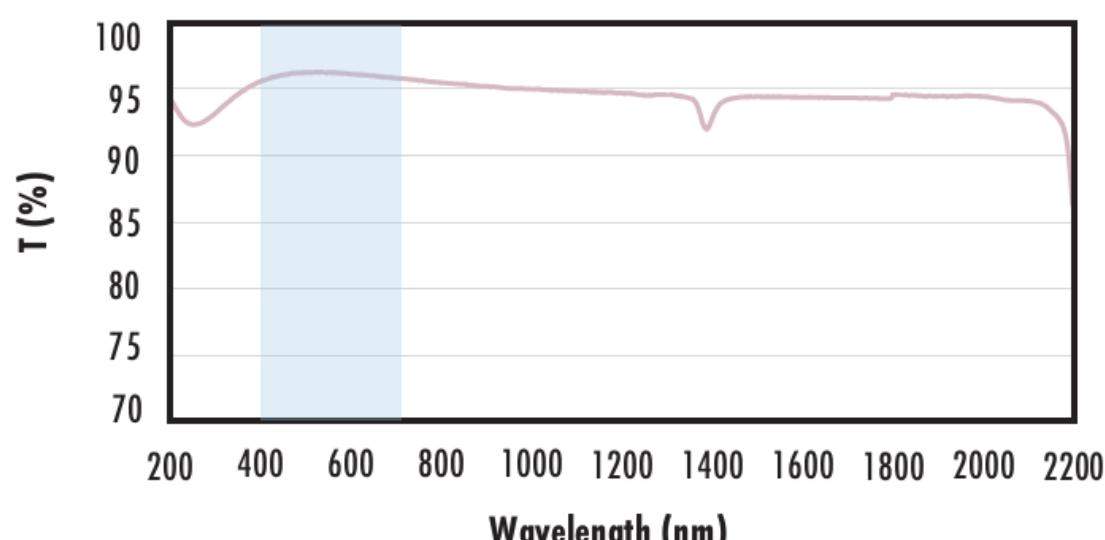
### Uncoated Fused Silica Typical Transmission



Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.

[Click Here to Download Data](#)

### Fused Silica with $MgF_2$ Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with  $MgF_2$  (400-700nm) coating at 0° AOI.

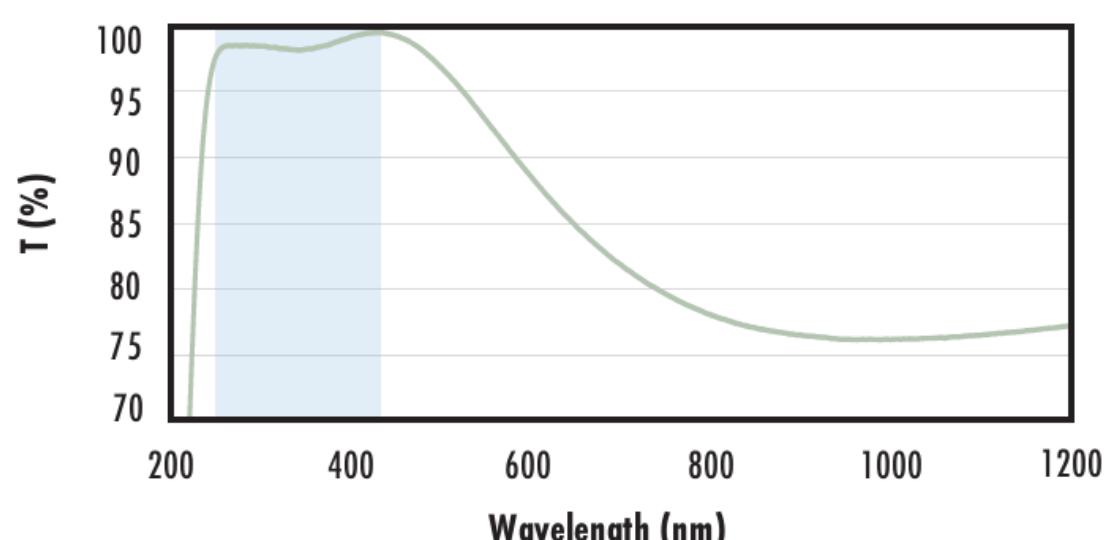
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 1.75\% @ 400 - 700nm$  (N-BK7)

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

### Fused Silica with UV-AR Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.

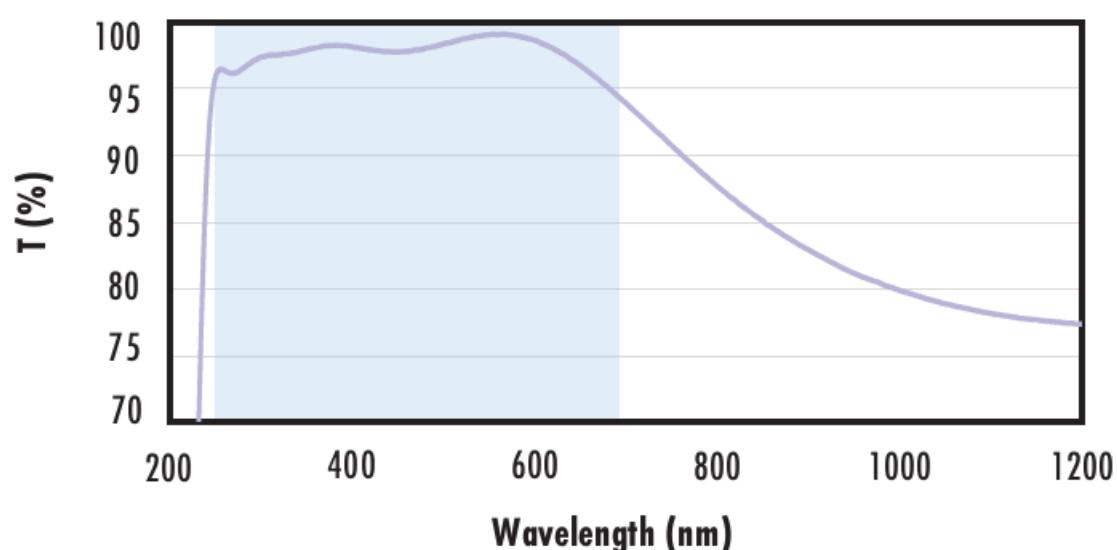
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 1.0\% @ 250 - 425nm$   
 $R_{avg} \leq 0.75\% @ 250 - 425nm$   
 $R_{avg} \leq 0.5\% @ 370 - 420nm$

Data outside this range is not guaranteed and is for reference only.

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## Fused Silica with UV-VIS Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

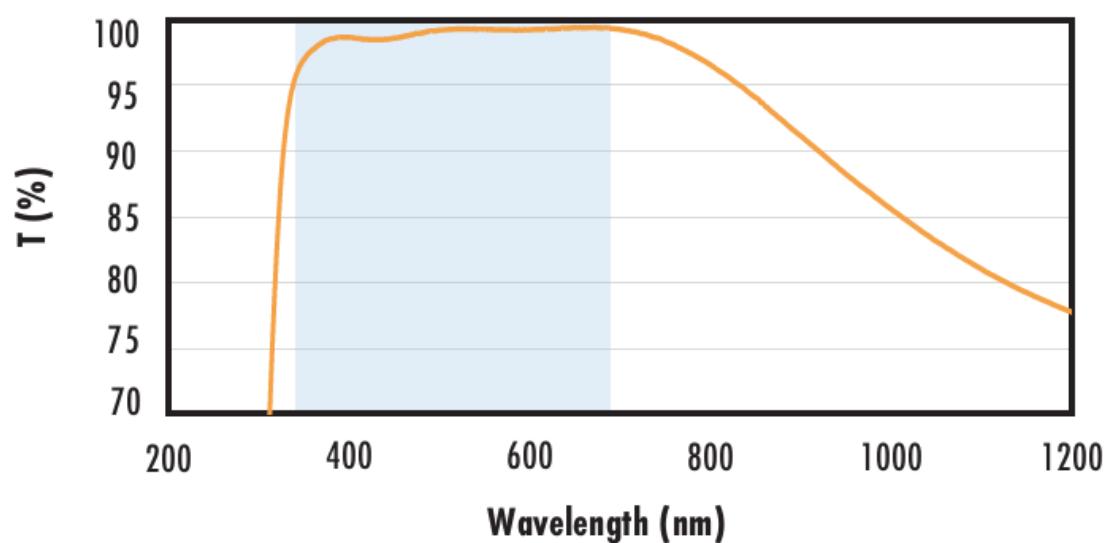
$$R_{abs} \leq 1.0\% @ 350 - 450\text{nm}$$

$$R_{avg} \leq 1.5\% @ 250 - 700\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

## Fused Silica with VIS-EXT Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

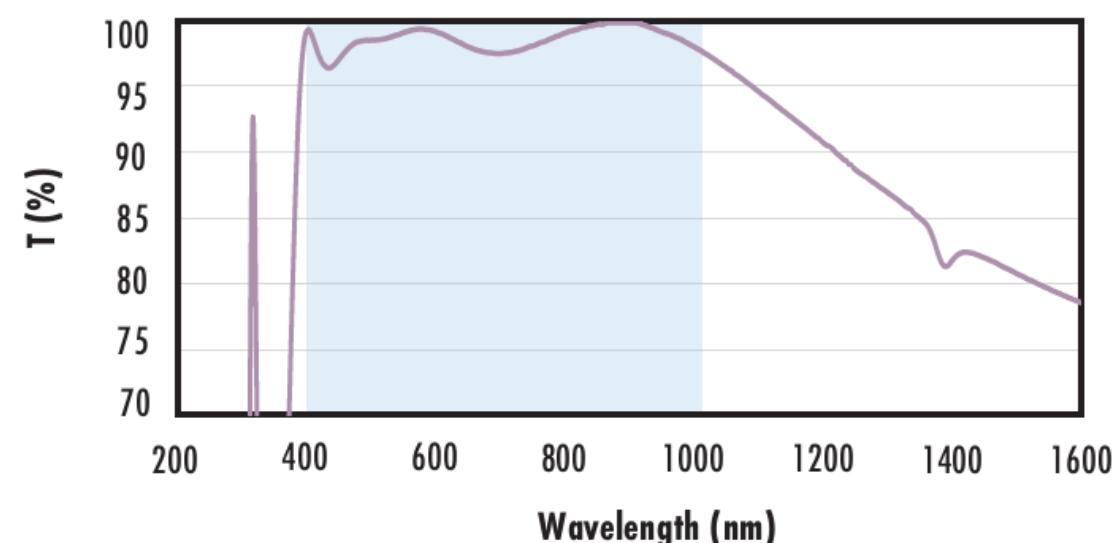
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

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## Fused Silica with VIS-NIR Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{abs} \leq 0.25\% @ 880\text{nm}$$

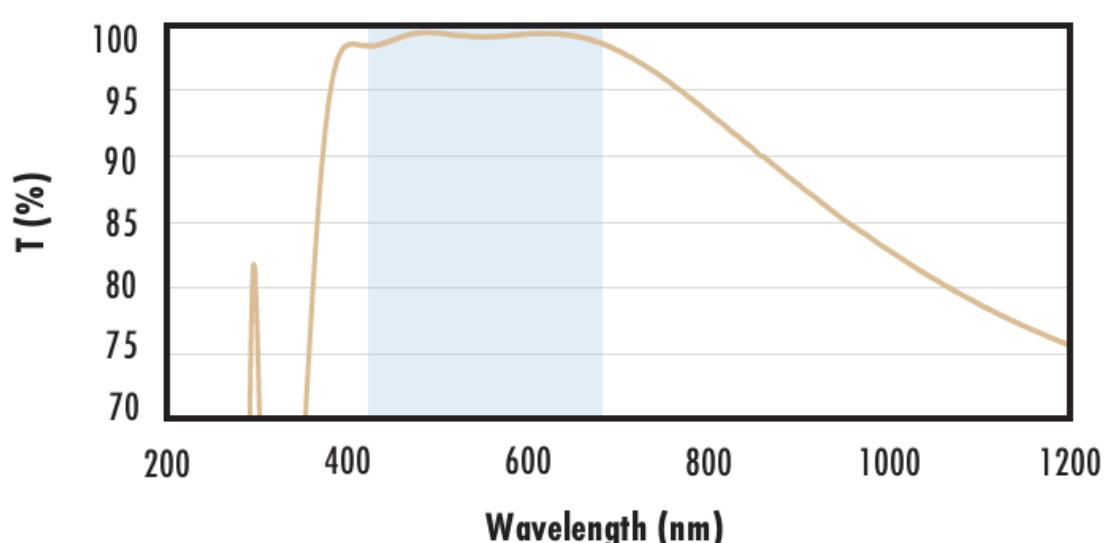
$$R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$$

$$R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

## Fused Silica with VIS 0° Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$$

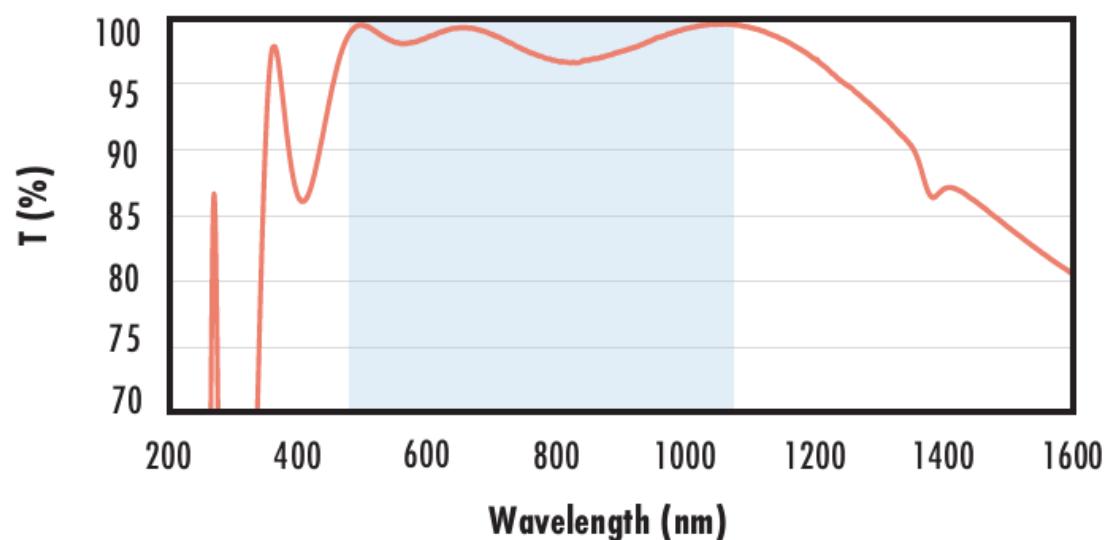
Data outside this range is not guaranteed and is for reference only.

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## Fused Silica with YAG-BBAR Coating

Typical Transmission

### Typical Transmission



Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.

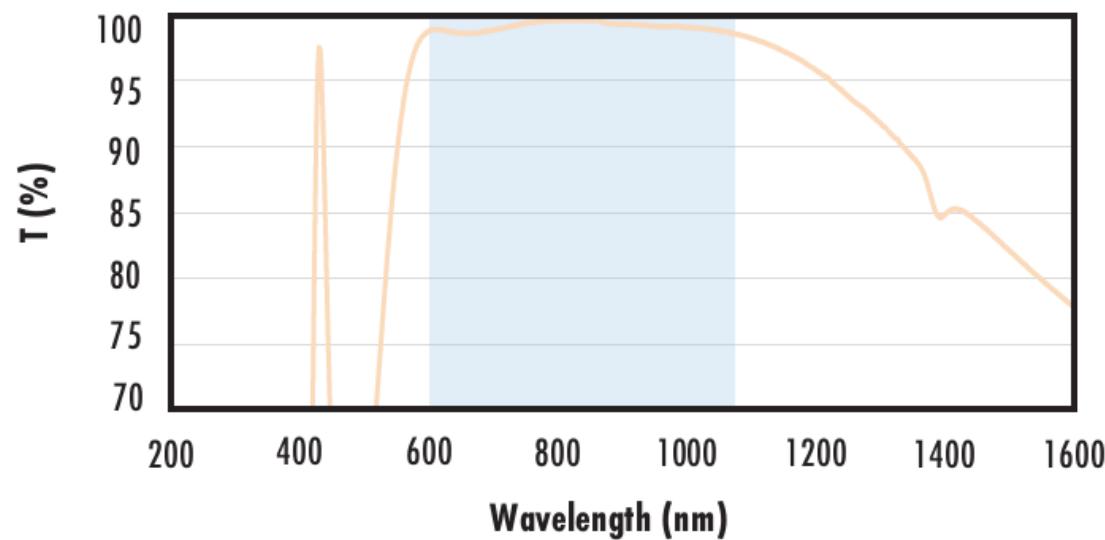
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 0.25\% @ 532nm$   
 $R_{abs} \leq 0.25\% @ 1064nm$   
 $R_{avg} \leq 1.0\% @ 500 - 1100nm$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

### Fused Silica with NIR I Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.

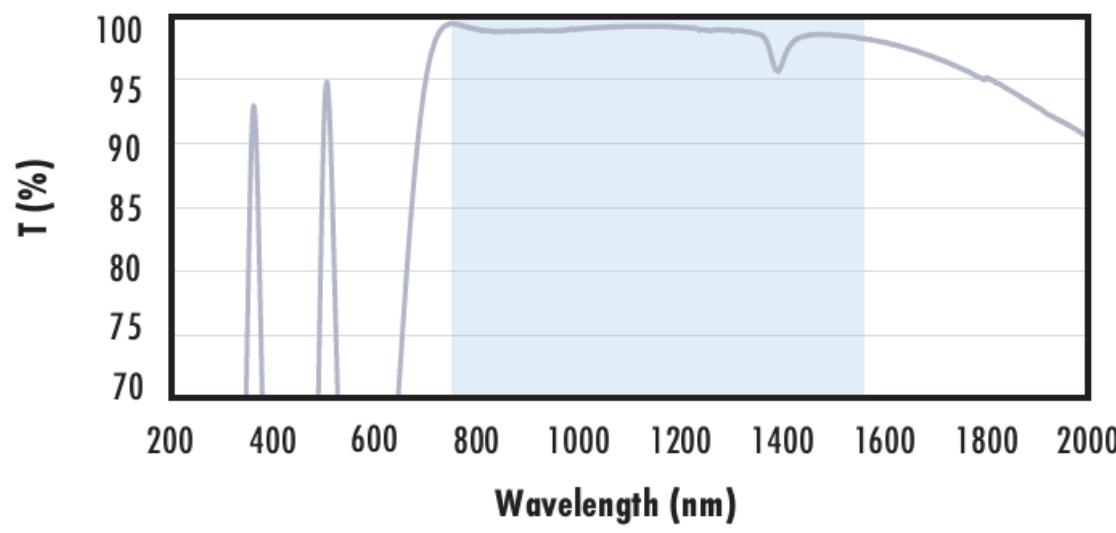
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.5\% @ 600 - 1050nm$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

### Fused Silica with NIR II Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 1.5\% @ 750 - 800nm$   
 $R_{abs} \leq 1.0\% @ 800 - 1550nm$   
 $R_{avg} \leq 0.7\% @ 750 - 1550nm$

Data outside this range is not guaranteed and is for reference only.

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### COATING CURVES