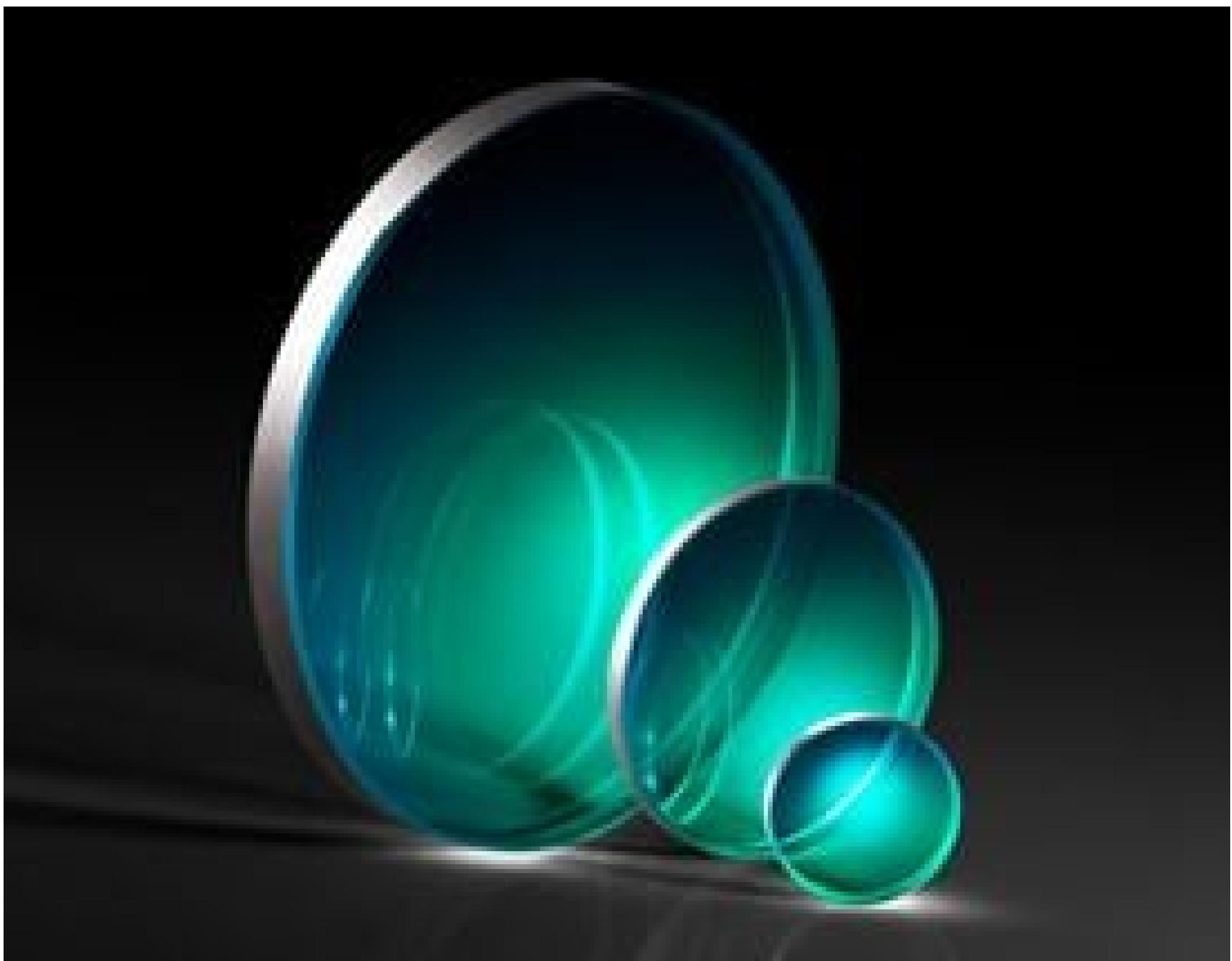


TECHSPEC® 50mm Dia., 4mm Thick, Uncoated, λ/4 Fused Silica Window

TECHSPEC® λ/4 UV Fused Silica Windows

Stock #14-966 **9 In Stock** **A\$323^{.20}****ADD TO CART**

Volume Pricing	
Qty 1-5	A\$323.20 each
Qty 6-25	A\$257.60 each
Qty 26-49	A\$241.60 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS**General****Type:**

Protective Window

Physical & Mechanical Properties

Protective as needed	Bevel:
90	Clear Aperture (%):
45.00	Clear Aperture CA (mm):
50.00 +0.00/-0.10	Diameter (mm):
4.00 ±0.10	Thickness (mm):
Fine Ground	Edges:
522.00	Knoop Hardness (kg/mm²):
<1	Parallelism (arcmin):
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):

Optical Properties

67.8	Abbe Number (v_d):
Uncoated	Coating:
1.458	Index of Refraction (n_d):
Fused Silica (Coming 7980)	Substrate:
40-20	Surface Quality:
λ/4	Transmitted Wavefront, P-V:
200 - 2200	Wavelength Range (nm):

Material Properties

0.52 (+5 to +35°C)	Coefficient of Thermal Expansion CTE (10⁻⁶°C):
0.57 (0 to +200°C)	
0.48 (-100 to +200°C)	
2.20	Density (g/cm³):

Regulatory Compliance

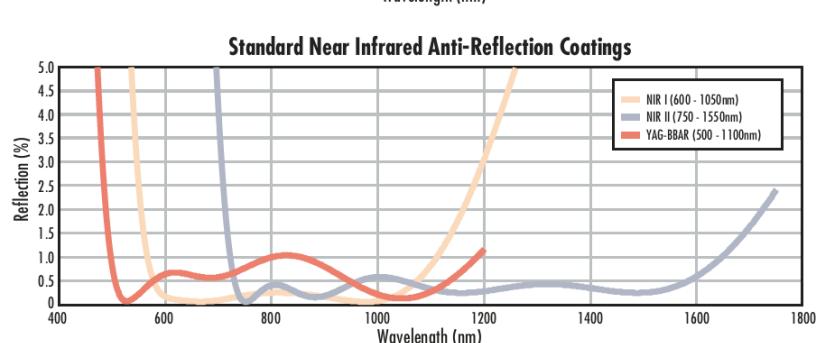
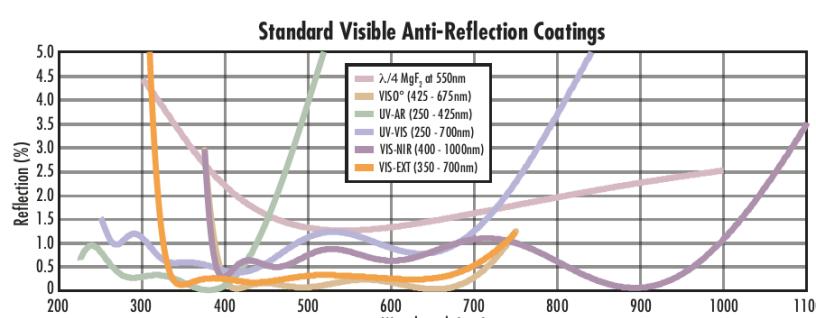
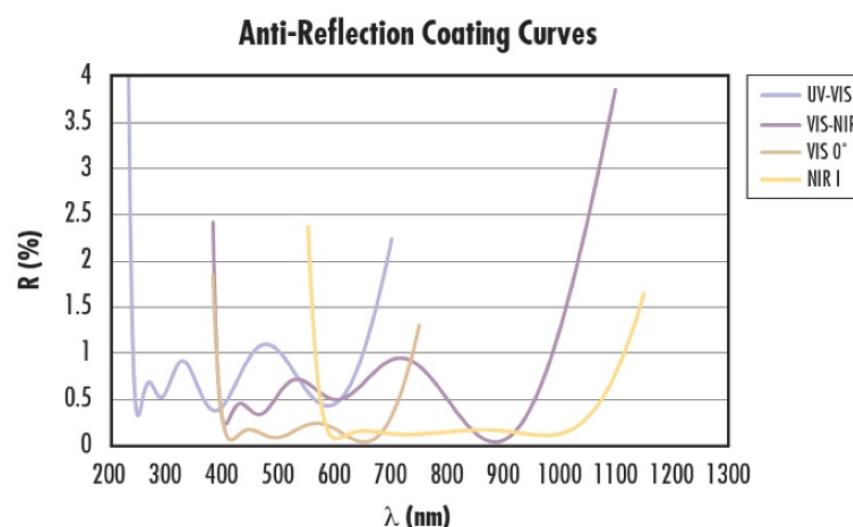
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	REACH 2015:

PRODUCT DETAILS

- Available Uncoated or BBAR Coated for UV, Visible, and NIR
- Ideal for Imaging Applications
- Circular and Rectangular Sizes from 5 to 200mm
- **1λ** or **λ/10** UV Fused Silica Windows Also Available

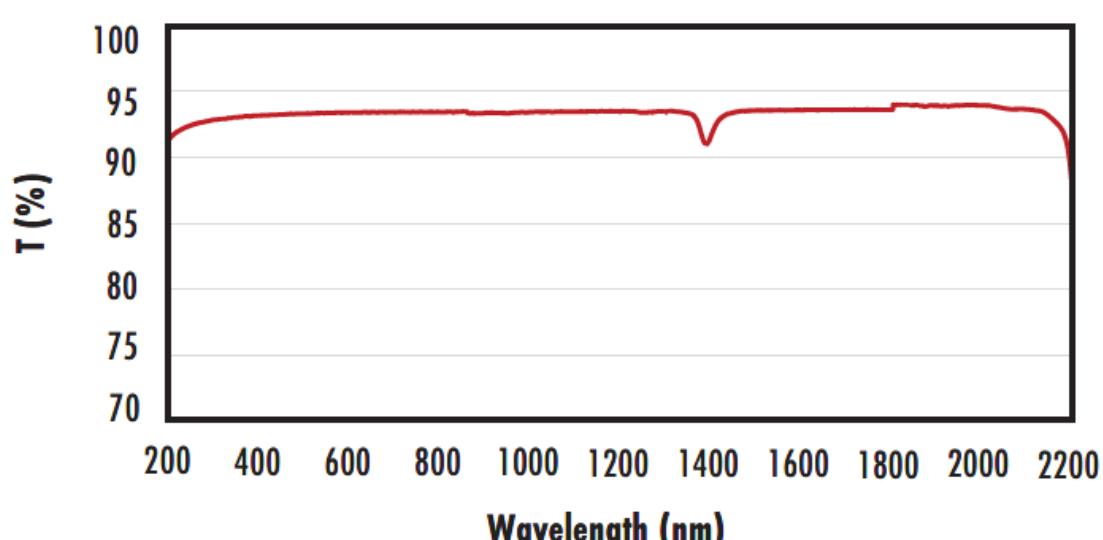
TECHSPEC® λ/4 UV Fused Silica Windows are manufactured with 40-20 surface quality and λ/4 transmitted wavefront error specifications, making them ideal for imaging applications. Featuring UV fused silica substrates, these windows provide high transmission from the ultraviolet (UV) through the visible and near-infrared (NIR). Broadband anti-reflection (BBAR) coating options are available to minimize reflection losses and increase transmission. TECHSPEC λ/4 UV Fused Silica Windows are used in optical imaging applications, in low to medium powered laser applications, and as protective windows, especially in applications requiring transmission of UV light.

TECHNICAL INFORMATION



FUSED SILICA

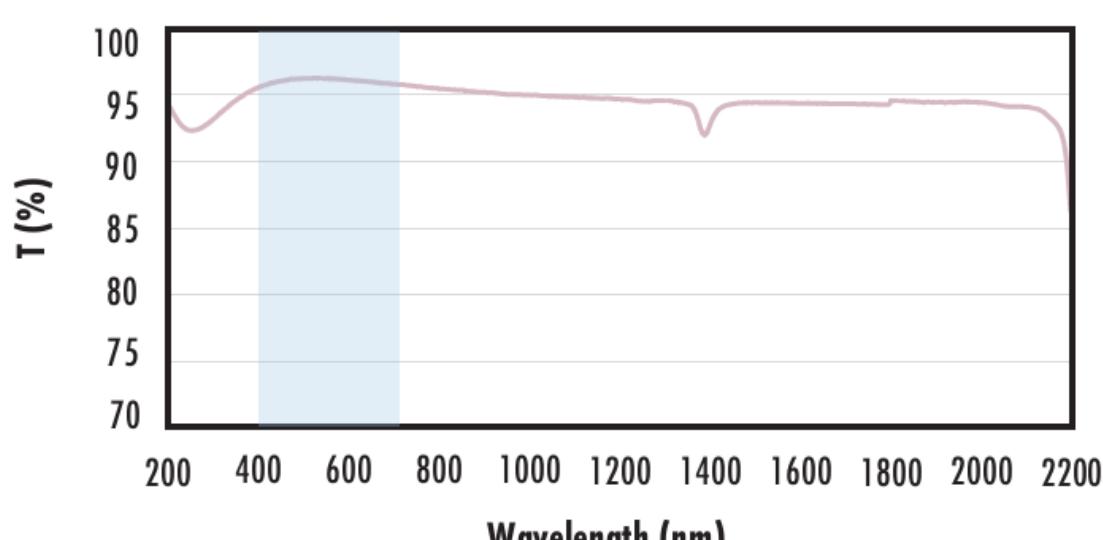
Uncoated Fused Silica Typical Transmission



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.

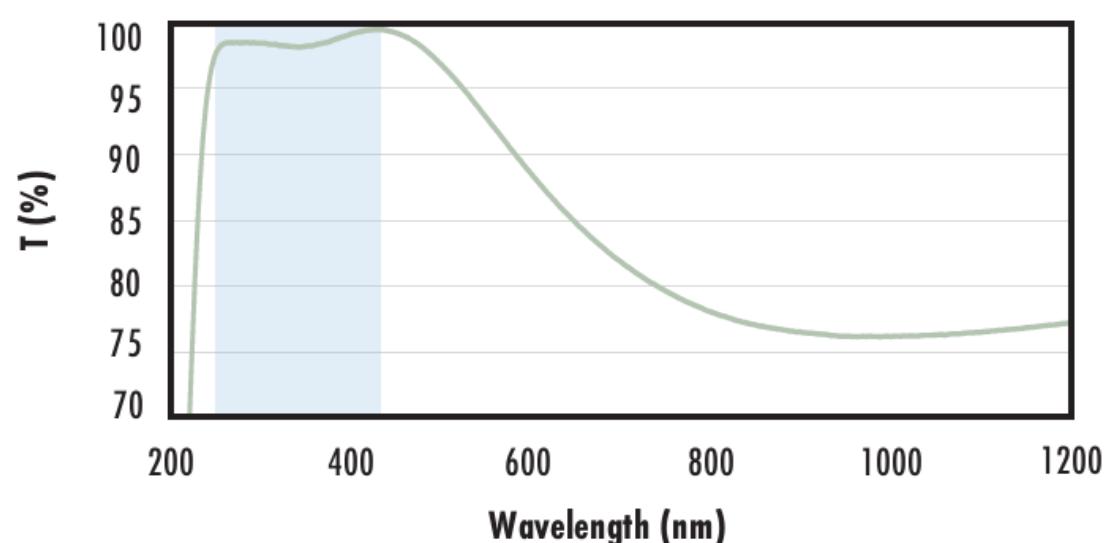
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{\text{avg}} \leq 1.75\% @ 400 - 700\text{nm}$ (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



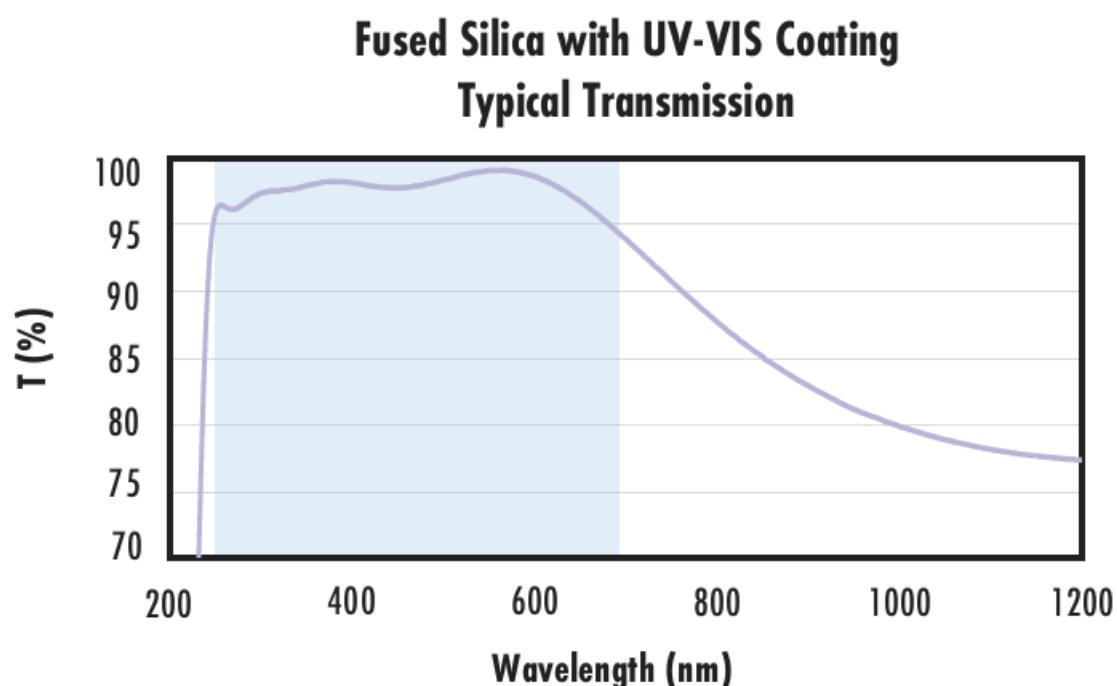
Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.

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

$$\begin{aligned} R_{\text{abs}} &\leq 1.0\% @ 250 - 425\text{nm} \\ R_{\text{avg}} &\leq 0.75\% @ 250 - 425\text{nm} \\ R_{\text{avg}} &\leq 0.5\% @ 370 - 420\text{nm} \end{aligned}$$

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

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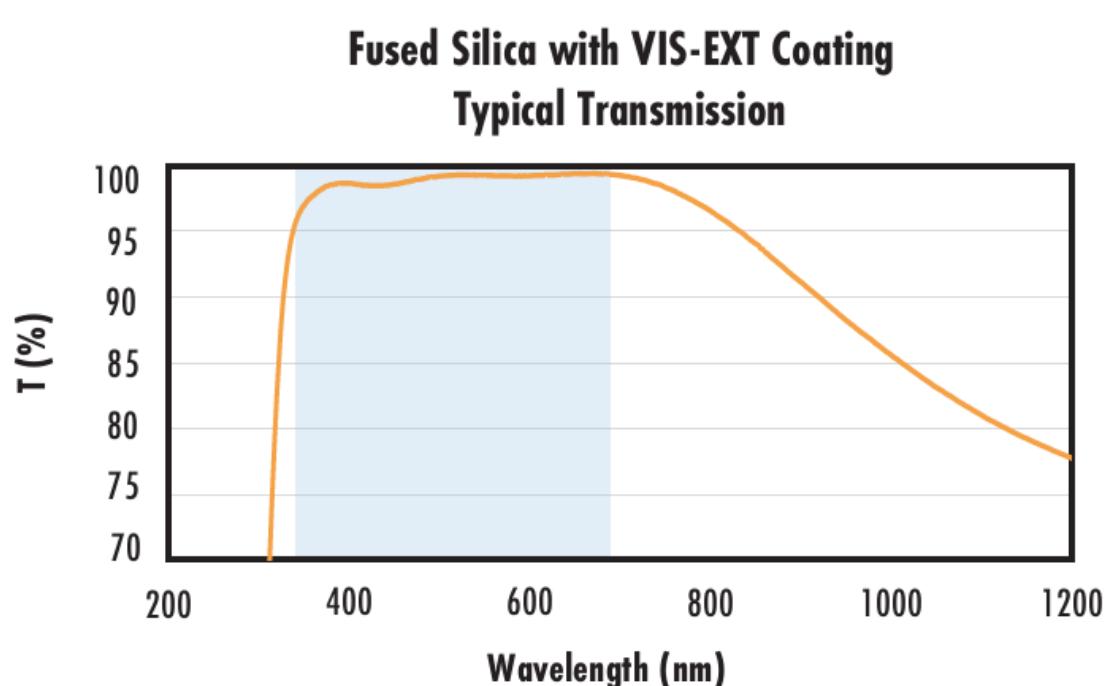
Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

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

$$\begin{aligned} R_{\text{abs}} &\leq 1.0\% @ 350 - 450\text{nm} \\ R_{\text{avg}} &\leq 1.5\% @ 250 - 700\text{nm} \end{aligned}$$

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

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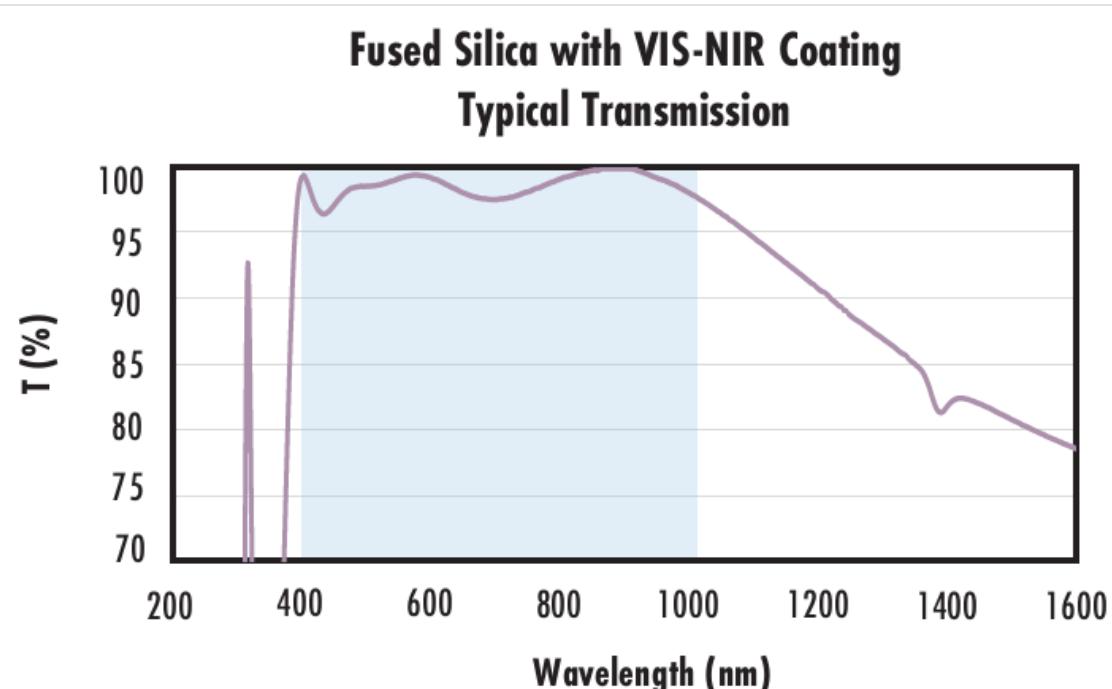
Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

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

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

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

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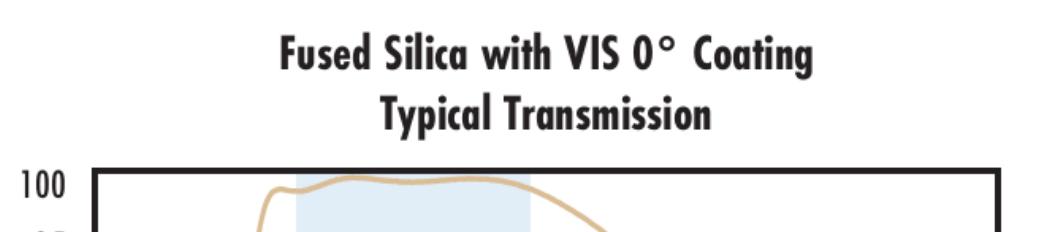
Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.

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

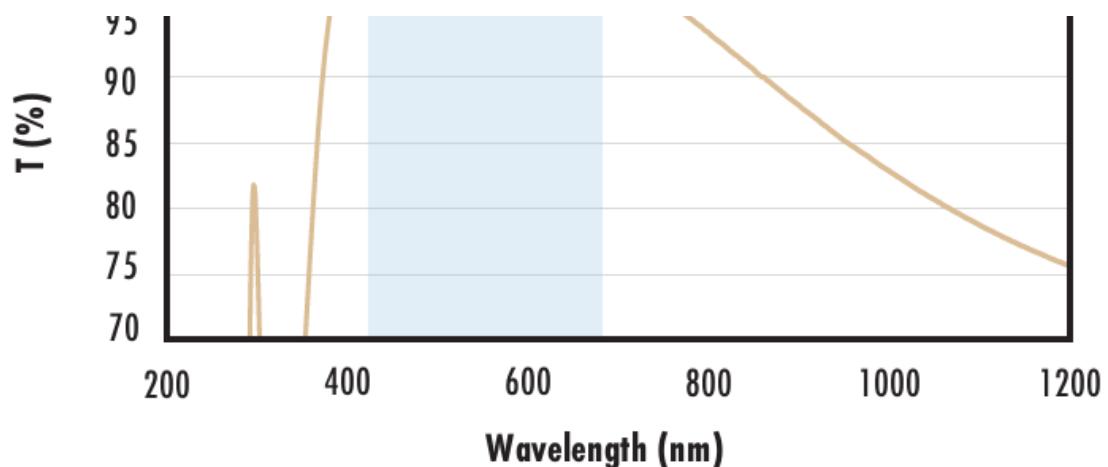
$$\begin{aligned} R_{\text{abs}} &\leq 0.25\% @ 880\text{nm} \\ R_{\text{avg}} &\leq 1.25\% @ 400 - 870\text{nm} \\ R_{\text{avg}} &\leq 1.25\% @ 890 - 1000\text{nm} \end{aligned}$$

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

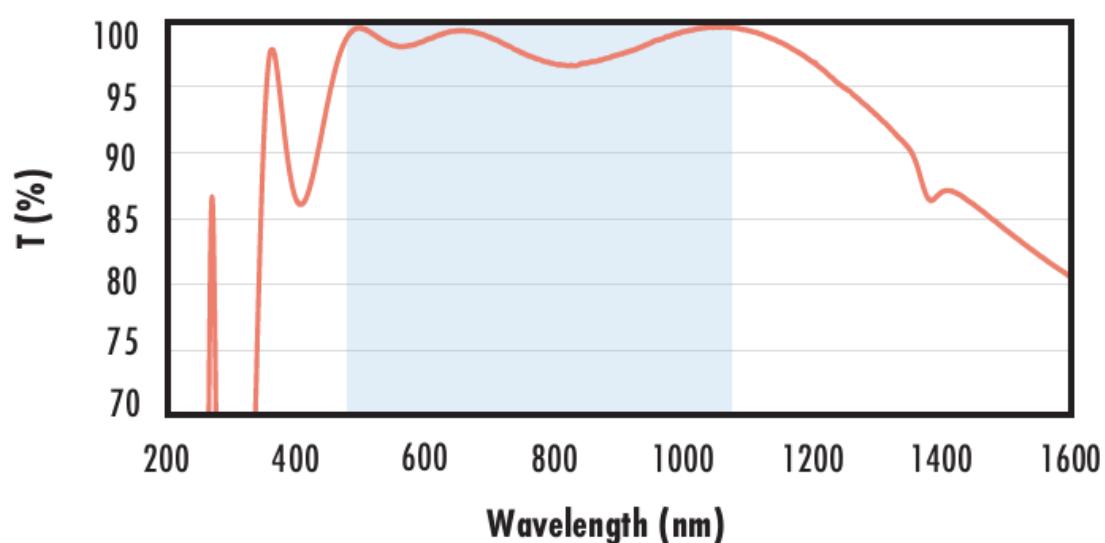
[Click Here to Download Data](#)



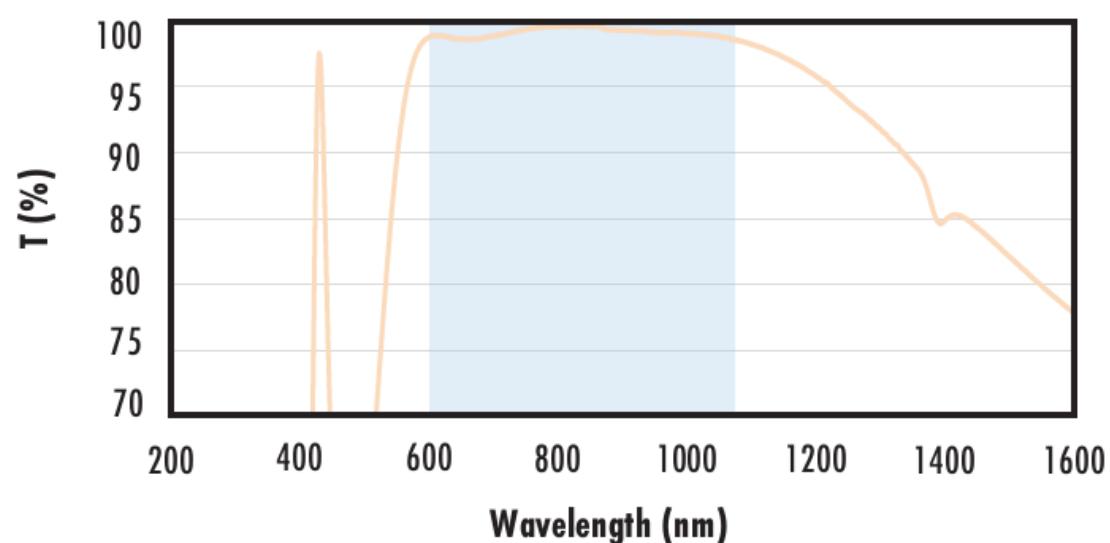
Typical transmission of a 3mm thick fused silica window with VIS



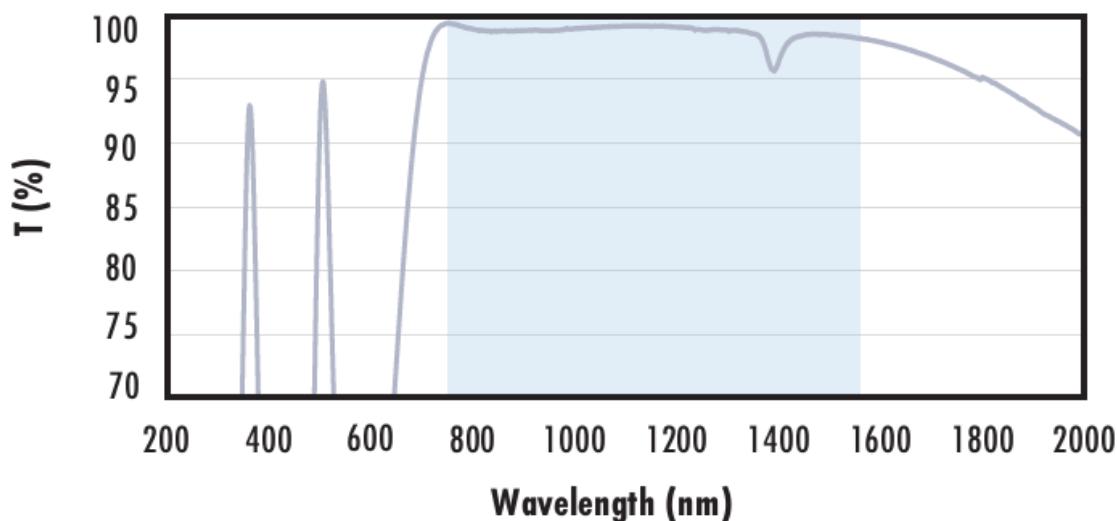
Fused Silica with YAG-BBAR Coating Typical Transmission



Fused Silica with NIR I Coating Typical Transmission



Fused Silica with NIR II Coating Typical Transmission



CUSTOM

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries

- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

COMPATIBLE MOUNTS
