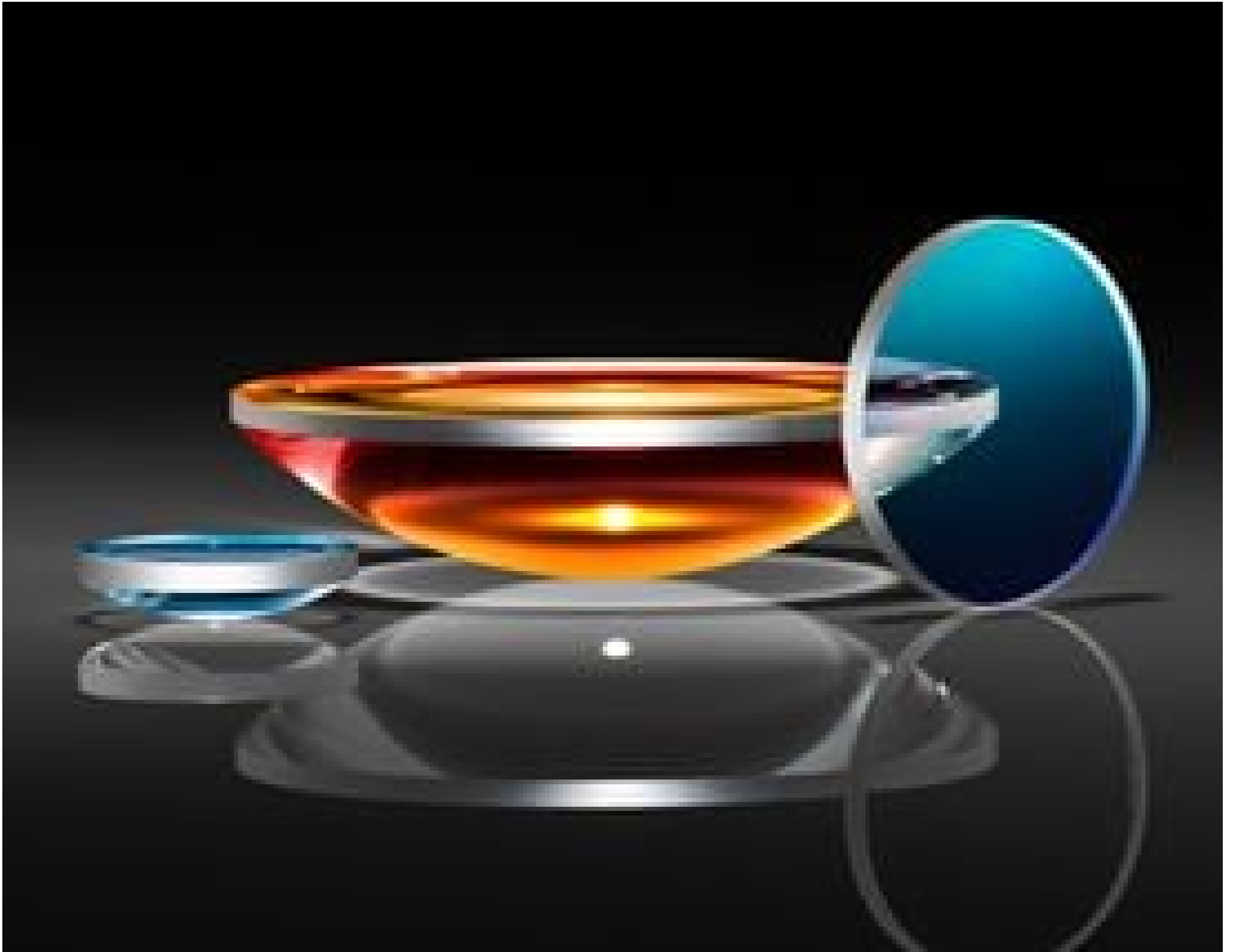
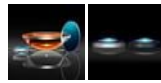


TECHSPEC® 75mm Dia. x 100mm FL VIS-NIR Coated, UV Plano-Convex Lens



UV Fused Silica Plano-Convex (PCX) Lenses



Stock #72-307 **5 In Stock**

- 1 + A\$1,184.⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	A\$1,184.00 each
Qty 6-25	A\$944.00 each
Qty 26-49	A\$888.00 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

General

Type:

Physical & Mechanical Properties

75.00 **Diameter (mm):**

<1 **Centering (arcmin):**

21.00 ±0.10 **Center Thickness CT (mm):**

1.53 **Edge Thickness ET (mm):**

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

Protective as needed **Bevel:**

Optical Properties

100.00 @ 587.6 **Effective Focal Length EFL (mm):**

85.61 **Back Focal Length BFL (mm):**

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

Coating Specification:
 $R_{\text{abs}} \leq 0.25\%$ @ 880nm
 $R_{\text{avg}} \leq 1.25\%$ @ 400 - 870nm
 $R_{\text{avg}} \leq 1.25\%$ @ 890 - 1000nm

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

40-20 **Surface Quality:**

3λ **Power (P-V) @ 632.8nm:**

λ/2 **Irregularity (P-V) @ 632.8nm:**

±1 **Focal Length Tolerance (%):**

45.85 **Radius R₁ (mm):**

1.33 **f#:**

0.38 **Numerical Aperture NA:**

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

5 J/cm² @ 532nm, 10ns **Damage Threshold, Reference:**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

PRODUCT DETAILS

- AR Coated to Provide <1.25% Reflection per Surface for 400 - 870nm and for 890 - 1000nm
- Precision Fused Silica Substrate
- Various Coating Options: [Uncoated](#), [MgF₂](#), [UV-AR](#), [UV-VIS](#), [VIS-EXT](#), [VIS 0°](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#)

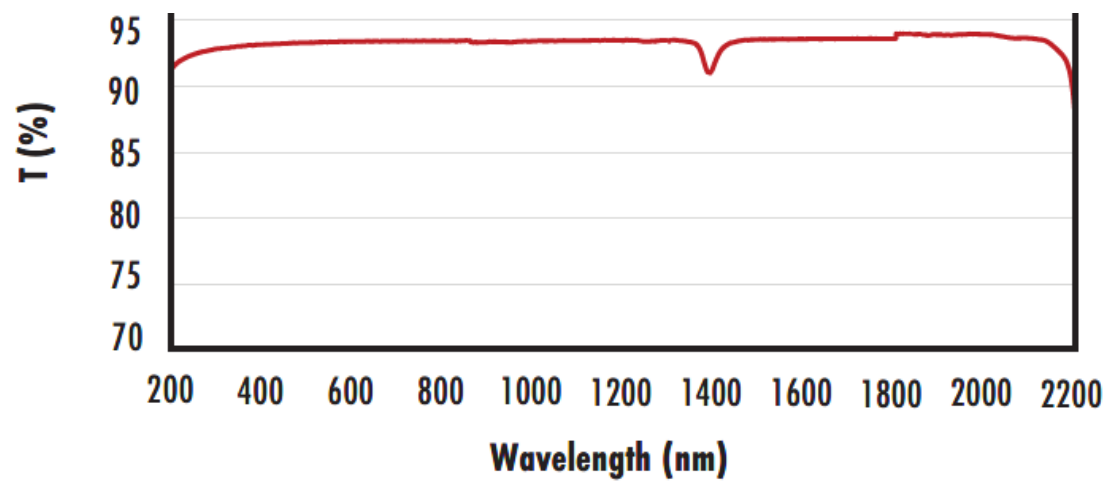
TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses VIS-NIR Coated feature precision specifications and a [variety of coating options](#) on a broadband substrate. Fused Silica is commonly used in applications from the Ultraviolet (UV) through the Near-Infrared (NIR). Its low index of refraction, low coefficient of thermal expansion, and low inclusion content make it ideal for laser applications and harsh environmental conditions. TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses VIS-NIR Coated feature industry leading diameter and centering specifications, making them ideal for integration into demanding imaging and targeting applications. These lenses are VIS-NIR coated to increase their coating performance in the visible and near infrared region.

TECHNICAL INFORMATION

FUSED SILICA

Uncoated Fused Silica Typical Transmission

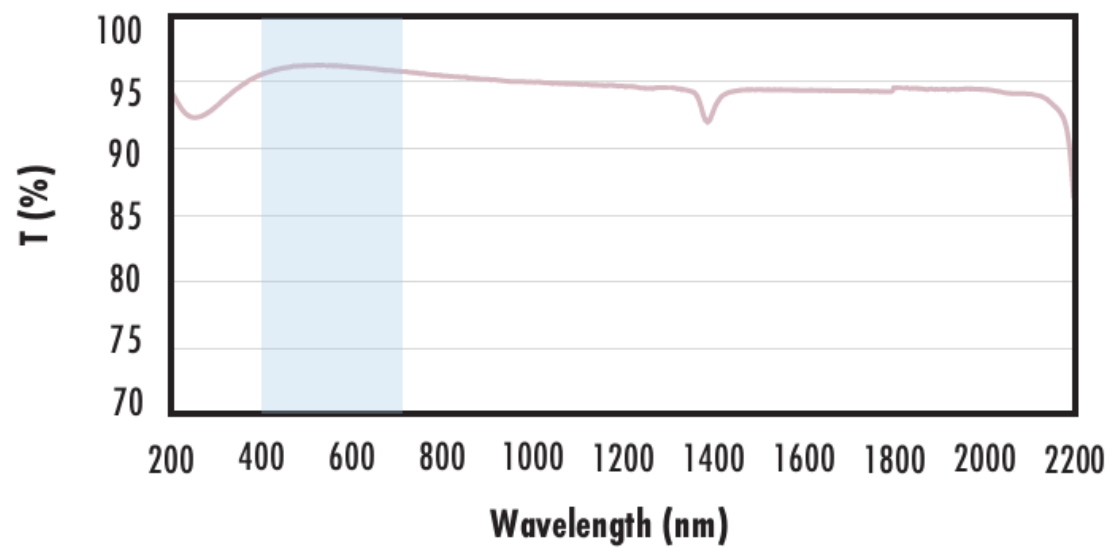
100



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

[Click Here to Download Data](#)

Fused Silica with MgF₂ Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with MgF₂ (400-700nm) coating at 0° AOI.

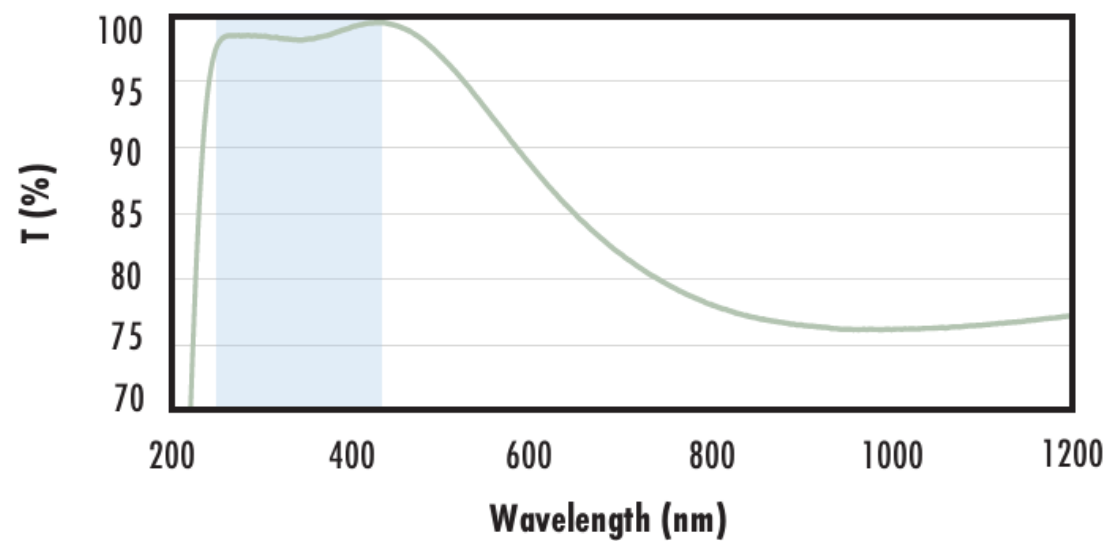
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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:

$$R_{abs} \leq 1.0\% @ 250 - 425\text{nm}$$

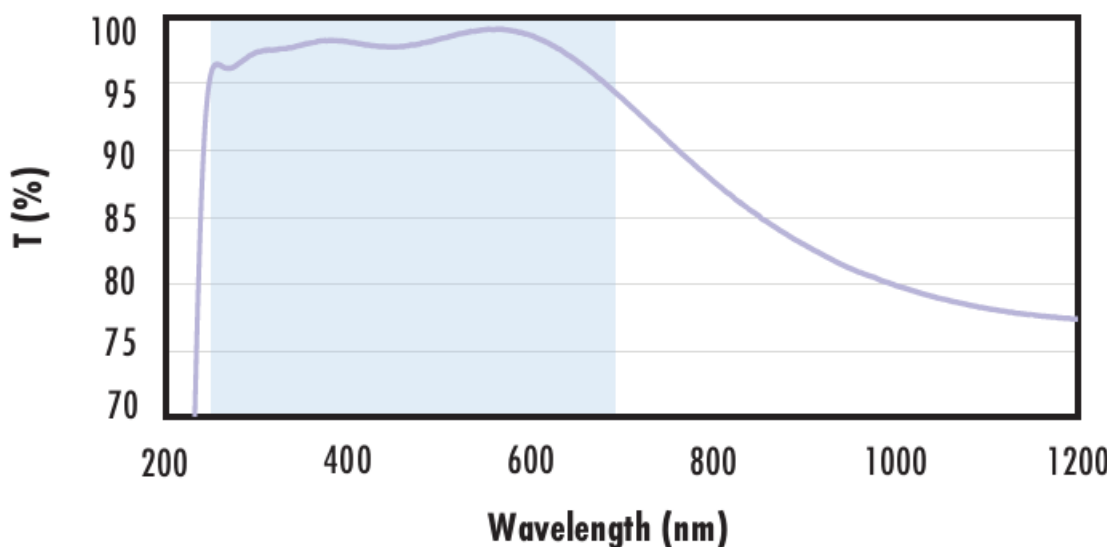
$$R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$$

$$R_{avg} \leq 0.5\% @ 370 - 420\text{nm}$$

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

[Click Here to Download Data](#)

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:

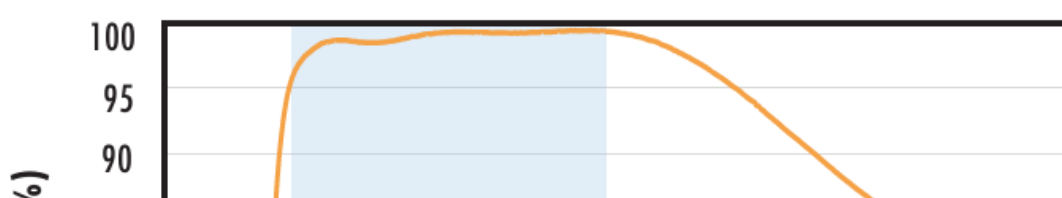
$$R_{abs} \leq 1.0\% @ 350 - 450\text{nm}$$

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

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

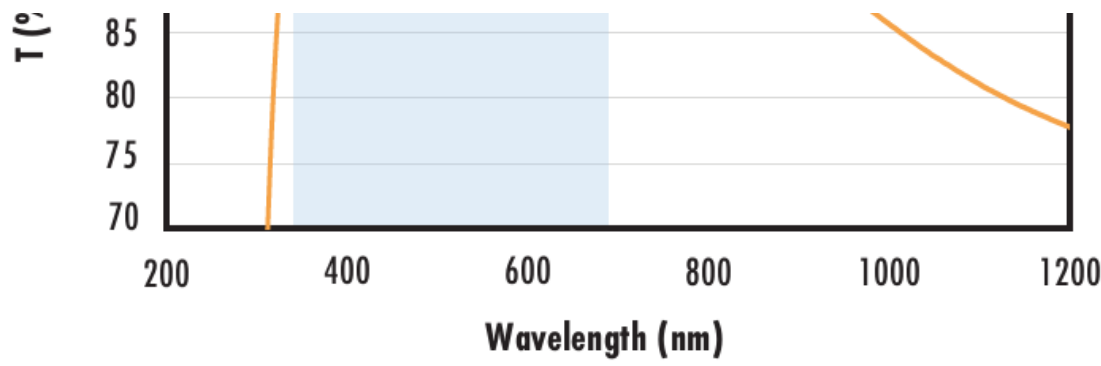
[Click Here to Download Data](#)

Fused Silica with VIS-EXT Coating Typical Transmission



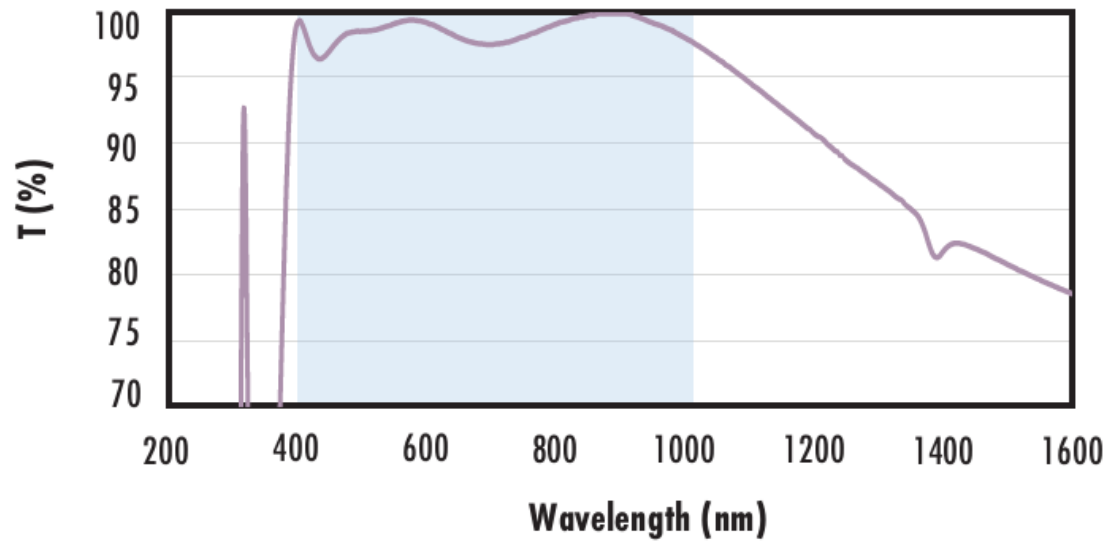
Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

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



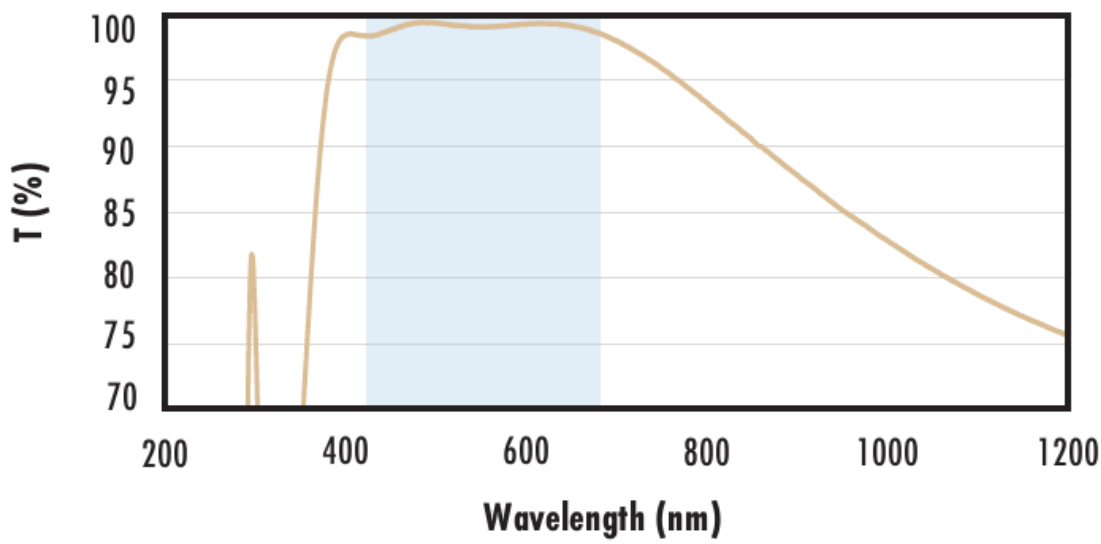
$R_{avg} \leq 0.5\% @ 350 - 700nm$
 Data outside this range is not guaranteed and is for reference only.
[Click Here to Download Data](#)

Fused Silica with VIS-NIR Coating Typical Transmission



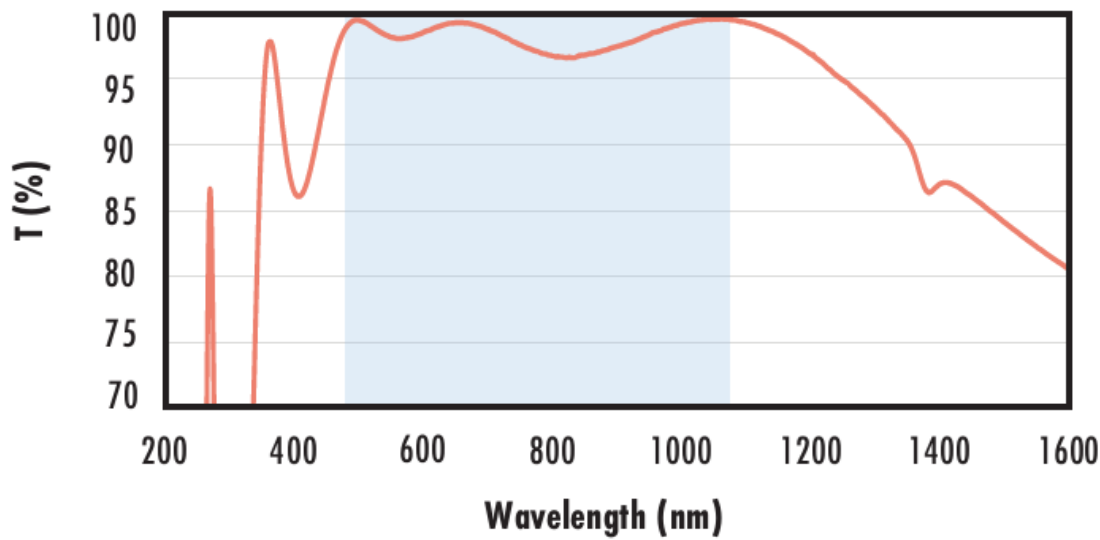
Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{abs} \leq 0.25\% @ 880nm$
 $R_{avg} \leq 1.25\% @ 400 - 870nm$
 $R_{avg} \leq 1.25\% @ 890 - 1000nm$
 Data outside this range is not guaranteed and is for reference only.
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Fused Silica with VIS 0° Coating Typical Transmission



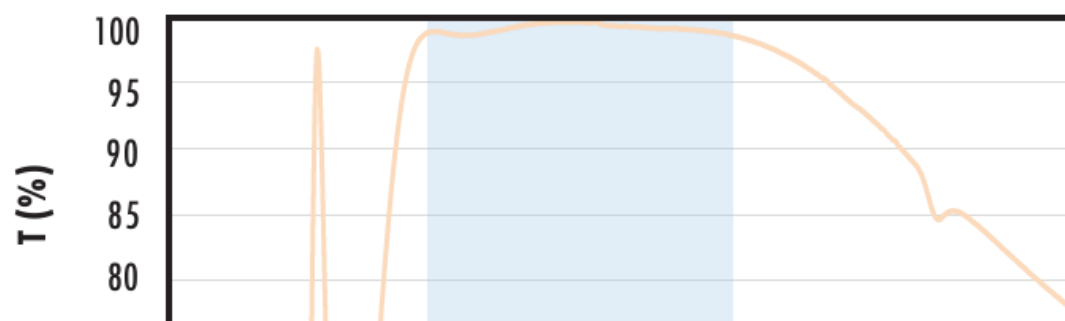
Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{avg} \leq 0.4\% @ 425 - 675nm$
 Data outside this range is not guaranteed and is for reference only.
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Fused Silica with YAG-BBAR Coating Typical Transmission

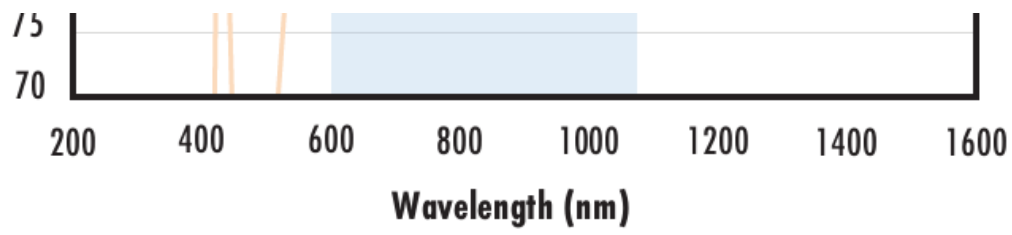


Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{abs} \leq 0.25\% @ 532nm$
 $R_{abs} \leq 0.25\% @ 1064nm$
 $R_{avg} \leq 1.0\% @ 500 - 1100nm$
 Data outside this range is not guaranteed and is for reference only.
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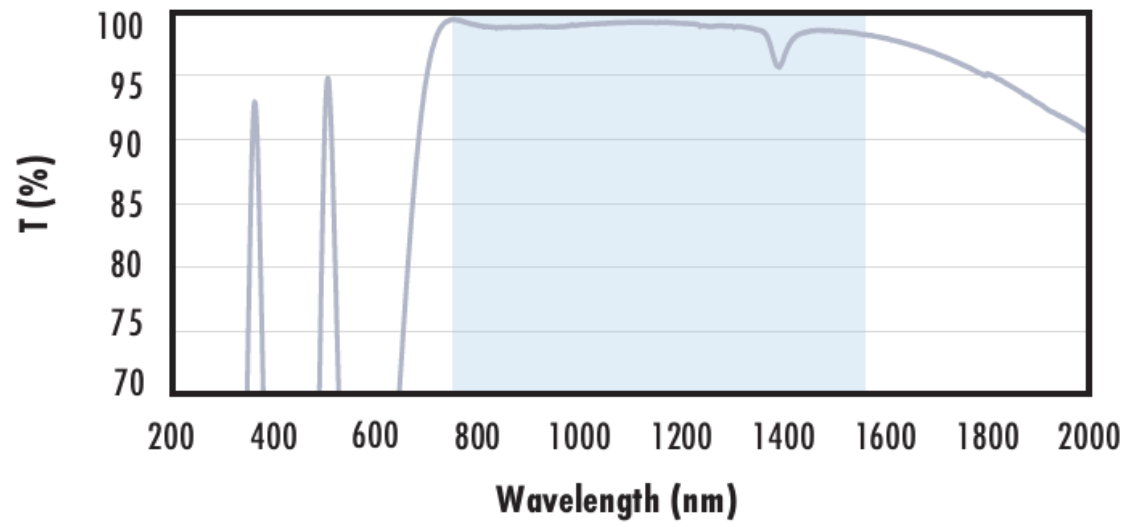
Fused Silica with NIR I Coating Typical Transmission



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

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](#).