

**TECHSPEC® 6mm Dia. x 6mm FL, VIS-EXT Coated, UV Double-Convex Lens**

UV Fused Silica Double-Convex (DCX) Lenses

Stock #22-196 **8 In Stock**[Other Coating Options](#)   **£118<sup>40</sup>****ADD TO CART**

Volume Pricing	
Qty 1-5	£118.40 each
Qty 6-25	£94.40 each
Qty 26-49	£89.60 each
Need More?	<a href="#">Request Quote</a>

• Prices shown are exclusive of VAT/local taxes**Product Downloads****SPECIFICATIONS**

## General

Type:  
Double-Convex Lens

## Physical & Mechanical Properties

Diameter (mm):  
6.00 +0.0/-0.025

Centering (arcmin):  
<1

Bevel:  
Protective as needed

Center Thickness CT (mm):  
4.10 ±0.05

Edge Thickness ET (mm):  
1.97

Clear Aperture CA (mm):  
5.4

## Optical Properties

Back Focal Length BFL (mm):  
4.38

Effective Focal Length EFL (mm):  
6.00

Coating:  
VIS-EXT (350-700nm)

Coating Specification:  
 $R_{avg} < 0.5\% @ 350 - 700nm$

Substrate:   
[Fused Silica](#) (Corning 7980)

Surface Quality:  
40-20

Power (P-V) @ 632.8nm:  
1.5λ

Irregularity (P-V) @ 632.8nm:  
λ/4

Radius  $R_1=R_2$  (mm):  
4.76

f#:  
1.00

Focal Length Specification Wavelength (nm):  
587.6

Focal Length Tolerance (%):  
±1

Numerical Aperture NA:  
0.50

Wavelength Range (nm):  
350 - 700

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

## Regulatory Compliance

RoHS 2015:  
[Compliant](#)

Certificate of Conformance:  
[View](#)

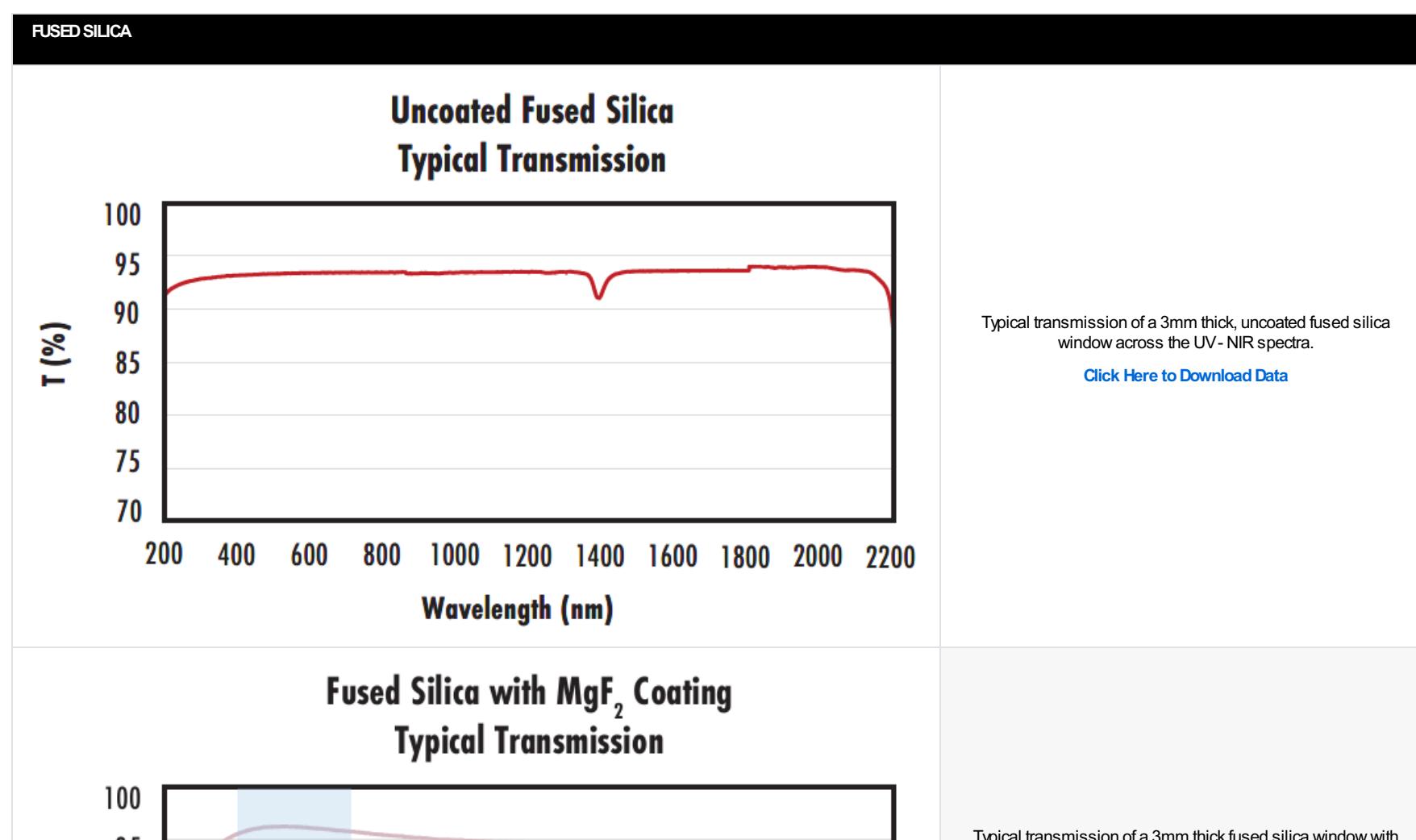
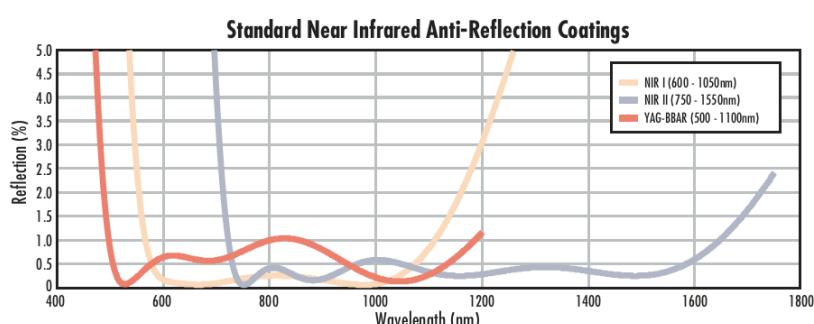
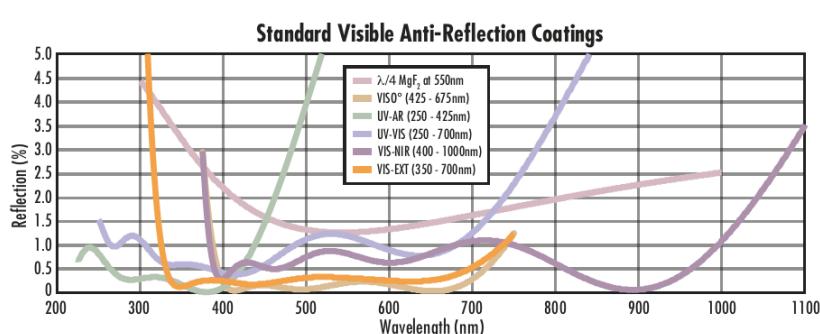
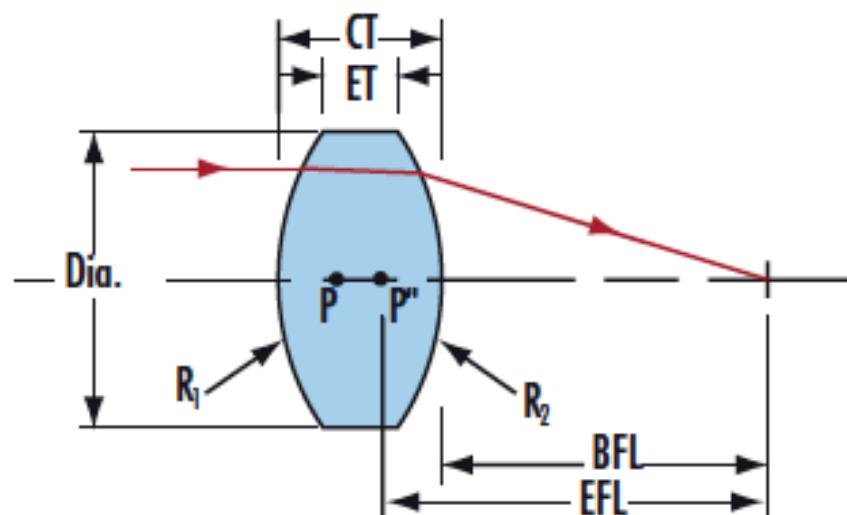
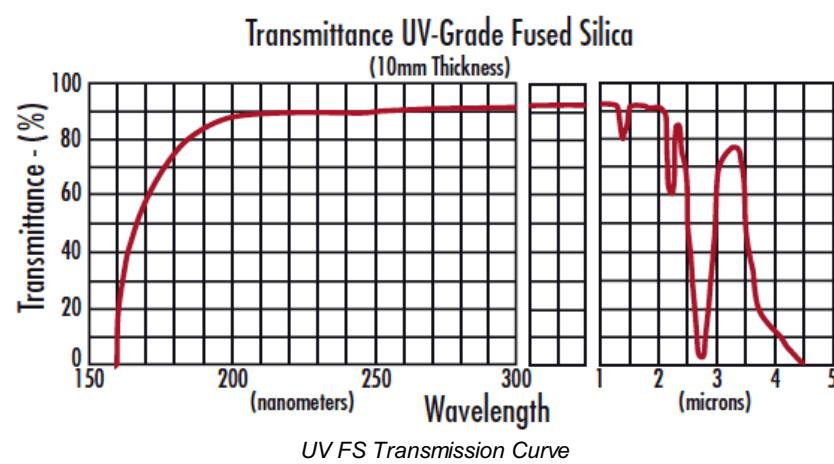
Reach 235:  
[Compliant](#)

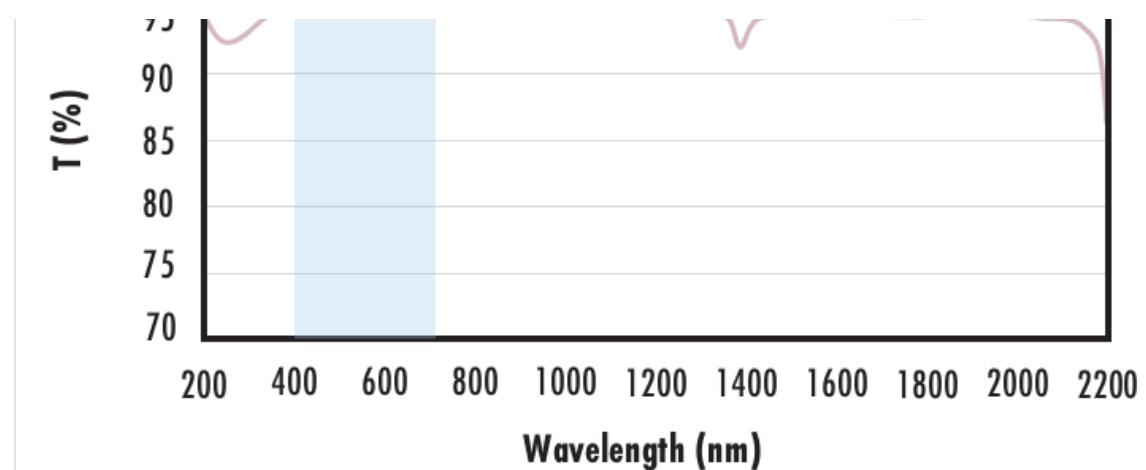
## PRODUCT DETAILS

- Ideal for Imaging Applications
- Minimize Aberrations Including Spherical and Coma
- Precision Fused Silica Substrate

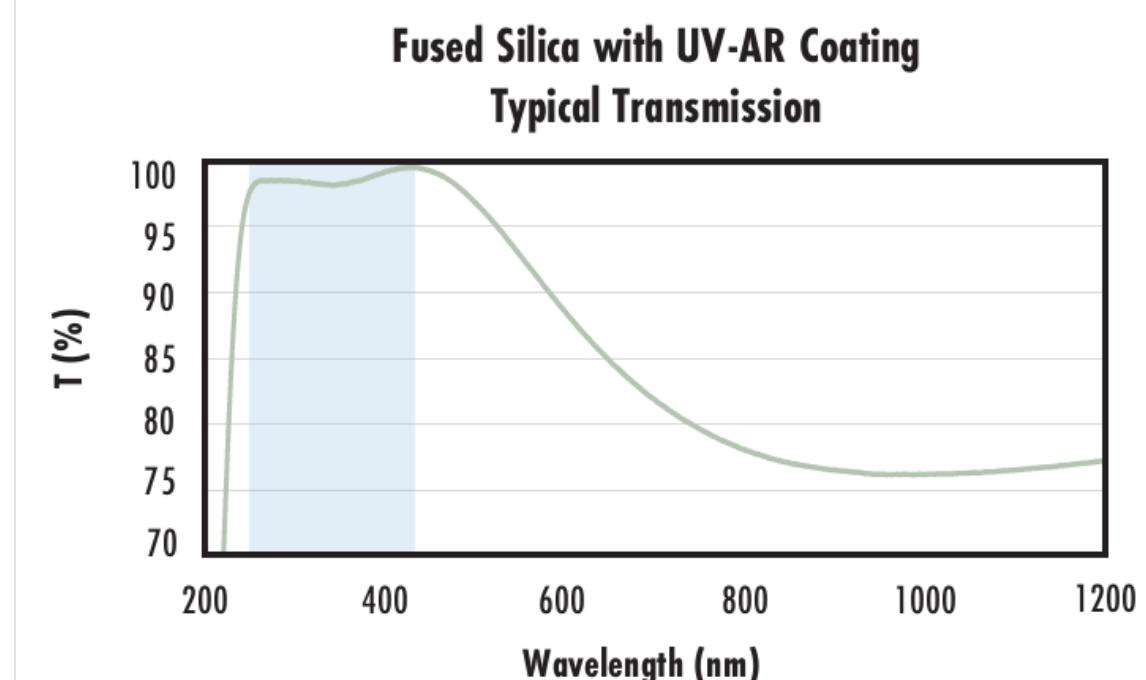
TECHSPEC® UV Fused Silica Double-Convex (DCX) Lenses, also referred to as bi-convex lenses, have two positive, symmetrical faces with equal radii on both sides. These lenses are generally recommended for finite imaging applications with a conjugate ratio (ratio between object distance and image distance) between 0.2 and 5. At a conjugate ratio of 1, aberrations such as spherical aberration, chromatic aberration, coma, and distortion are minimized or canceled due to the symmetric lens design. TECHSPEC® UV Fused Silica Double-Convex (DCX) Lenses have a precision fused silica substrate. These lenses are available uncoated or with UV-AR, UV-VIS, VIS-EXT, VIS-NIR, VIS 0°, NIR I, or NIR II coatings.

## TECHNICAL INFORMATION

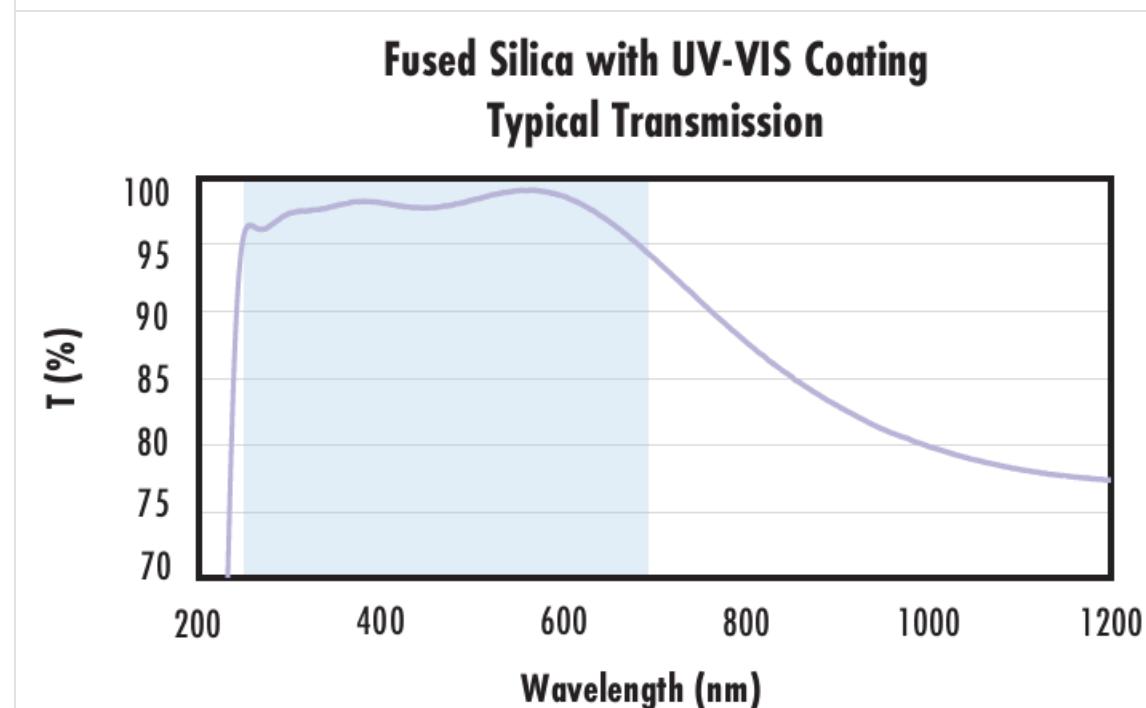




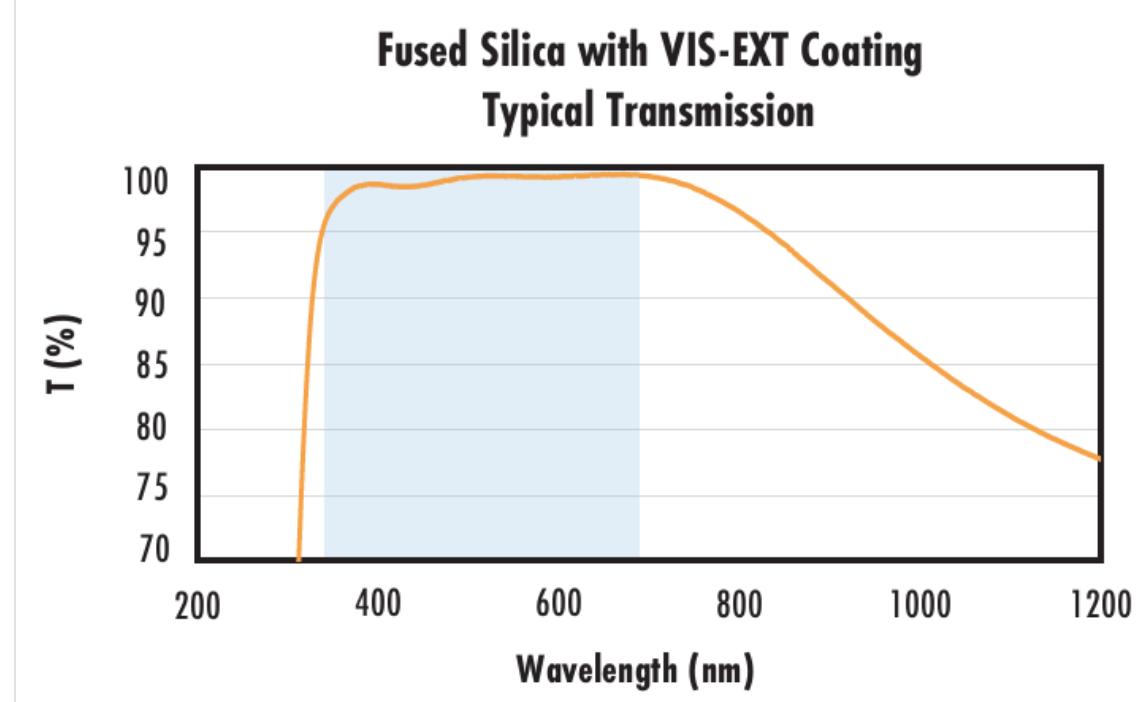
MgF<sub>2</sub> (400-700nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$  (N-BK7)  
 Data outside this range is not guaranteed and is for reference only.  
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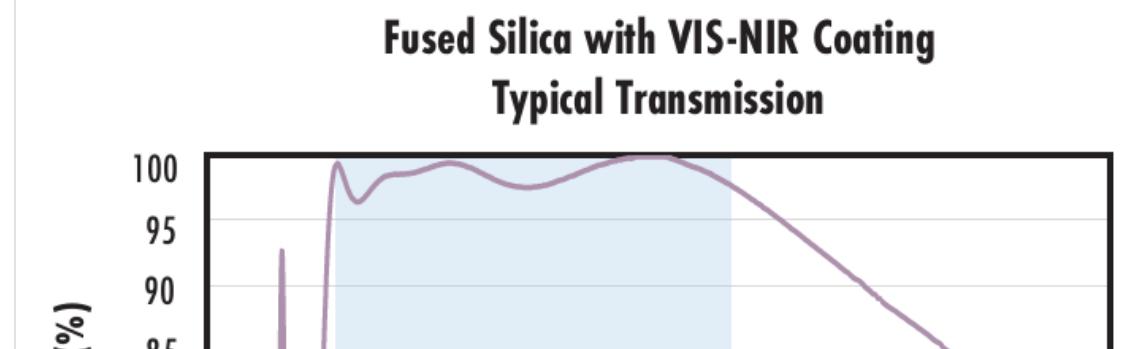
Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{abs} \leq 1.0\% @ 250 - 425\text{nm}$   
 $R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$   
 $R_{avg} \leq 0.5\% @ 370 - 420\text{nm}$   
 Data outside this range is not guaranteed and is for reference only.  
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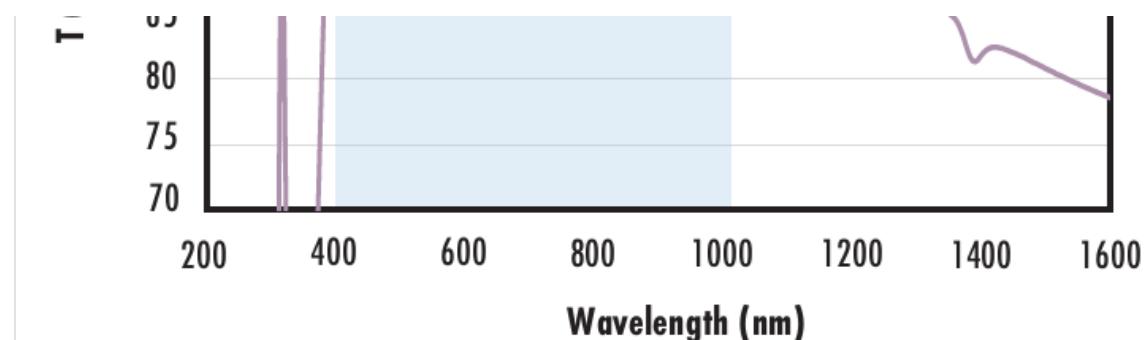
Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{abs} \leq 1.0\% @ 350 - 450\text{nm}$   
 $R_{avg} \leq 1.5\% @ 250 - 700\text{nm}$   
 Data outside this range is not guaranteed and is for reference only.  
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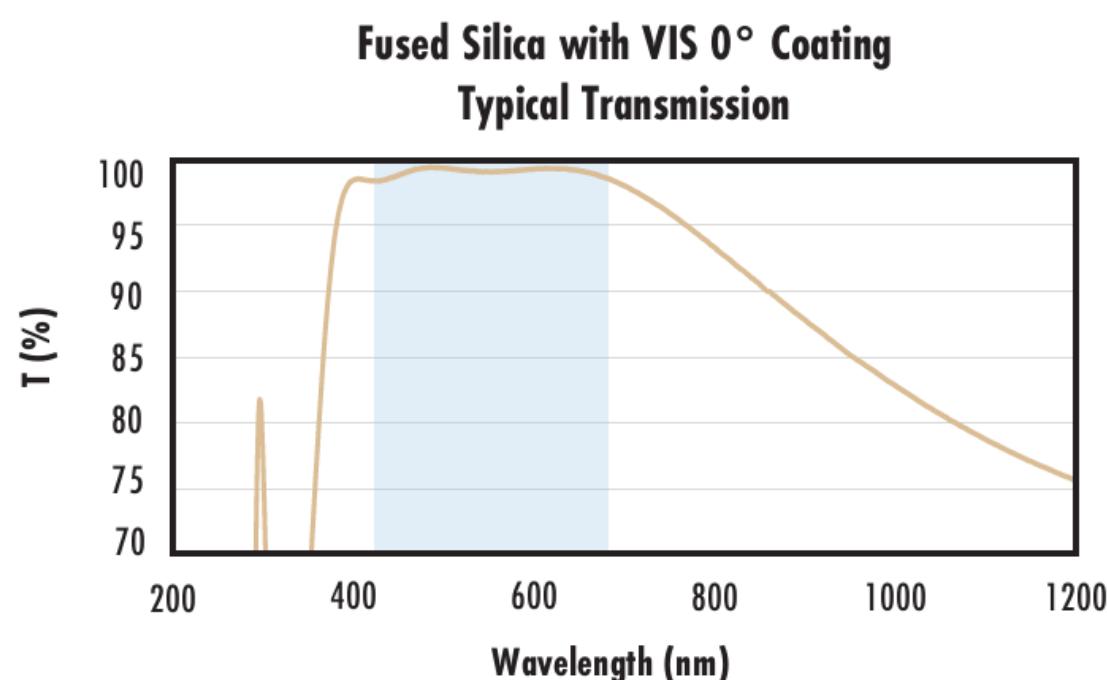
Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$   
 Data outside this range is not guaranteed and 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:  
 $R_{abs} \leq 0.25\% @ 880\text{nm}$   
 $R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$

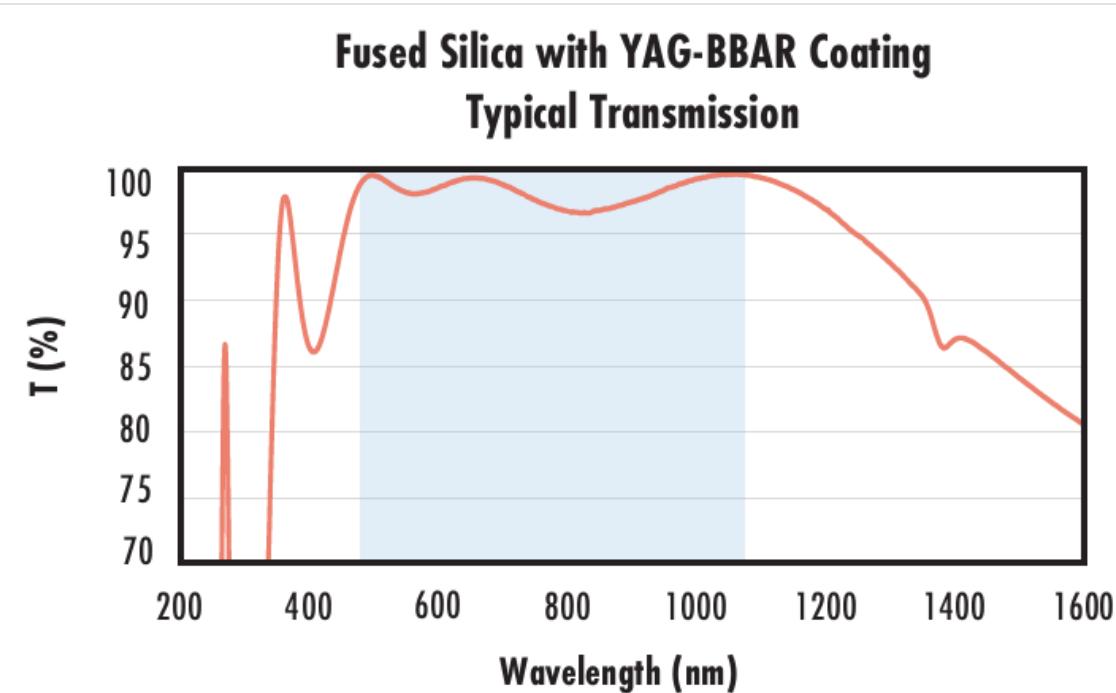


$R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$   
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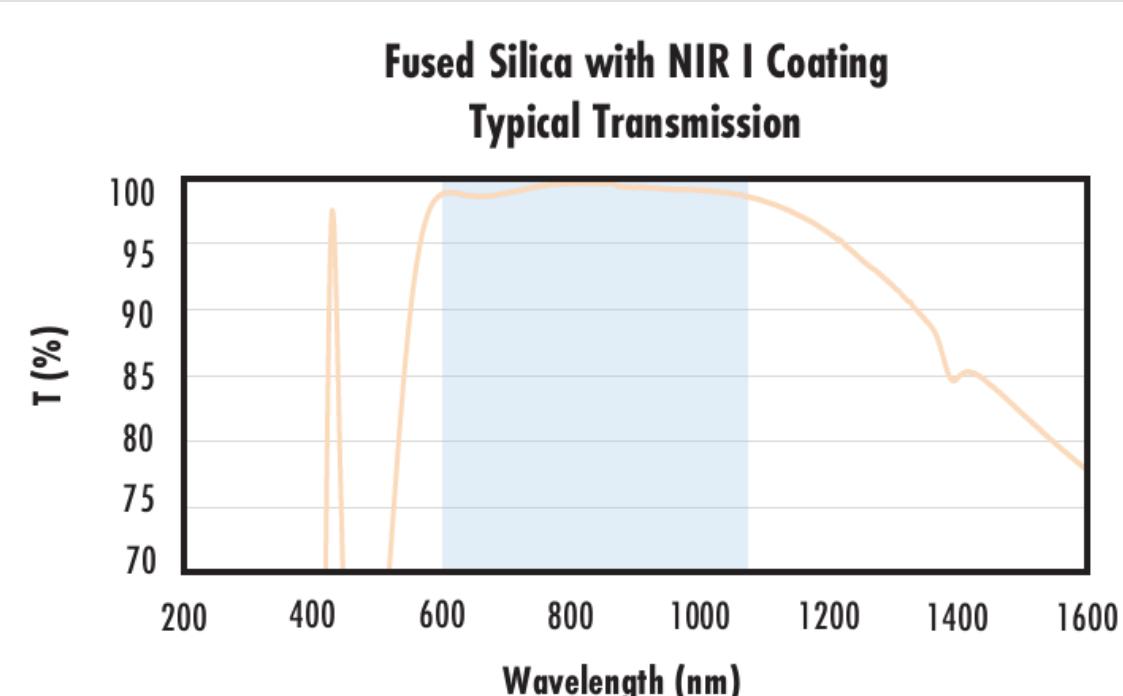
Typical transmission of a 3mm thick fused silica window with VS 0° (425-675nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$   
 Data outside this range is not guaranteed and is for reference only.

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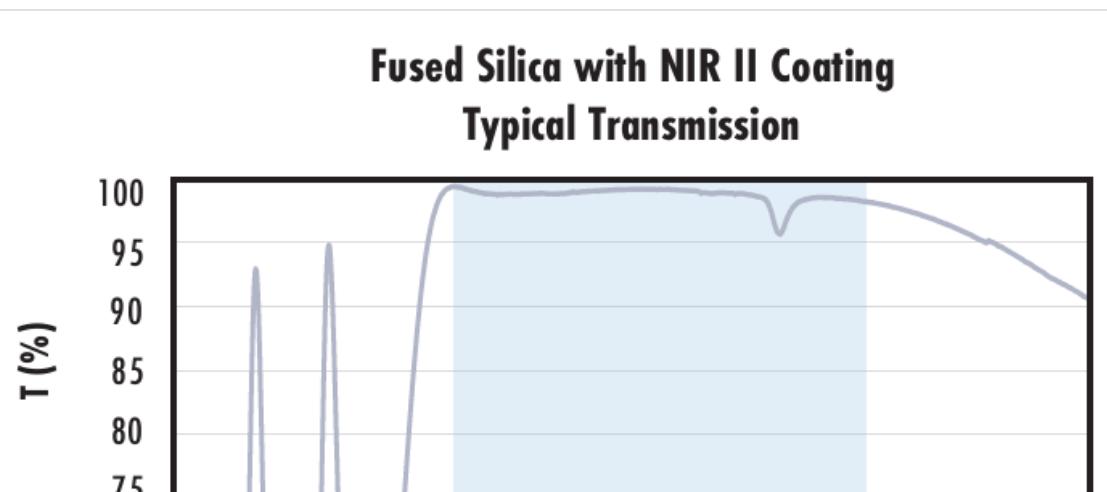
Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{abs} \leq 0.25\% @ 532\text{nm}$   
 $R_{abs} \leq 0.25\% @ 1064\text{nm}$   
 $R_{avg}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

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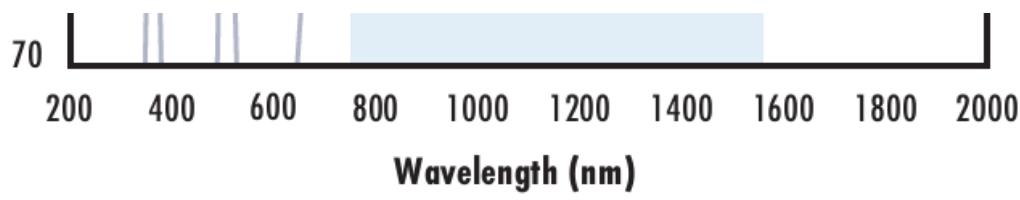


Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}$   
 Data outside this range is not guaranteed and is for reference only.

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Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{abs} \leq 1.5\% @ 750 - 800\text{nm}$   
 $R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}$   
 $R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}$   
 Data outside this range is not guaranteed and is for reference only.



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## 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](#).