

TECHSPEC® 25.0mm Dia. x -100 FL, VIS-NIR, UV Plano-Concave Lens

UV Fused Silica Plano-Concave (PCV) Lenses

Stock #21-056 **3 In Stock**[Other Coating Options](#) **A\$262^{.40}****ADD TO CART**

Volume Pricing	
Qty 1-5	A\$262.40 each
Qty 6-25	A\$209.60 each
Qty 26-49	A\$196.80 each
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SPECIFICATIONS**General**

Type: Piano-Concave Lens

Note: Max Flat Annulus is 0.3mm

Physical & Mechanical Properties

Diameter (mm): 25.00 +0.0/-0.025

Center Thickness CT (mm): 2.50

Center Thickness Tolerance (mm): ±0.10

Centering (arcmin): <1

Clear Aperture CA (mm): 24

Edge Thickness ET (mm): 4.15

Optical Properties

Effective Focal Length EFL (mm): -100.00

Substrate: Fused Silica (Corning 7980)

f#: 4.00

Numerical Aperture NA: 0.13

Coating: VIS-NIR (400-1000nm)

Wavelength Range (nm): 400 - 1000

Back Focal Length BFL (mm): -101.71

Coating Specification:
R_{abs} ≤ 0.25% @ 880nm
R_{avg} ≤ 1.25% @ 400 - 870nm
R_{avg} ≤ 1.25% @ 890 - 1000nm

Focal Length Specification Wavelength (nm): 587.6

Focal Length Tolerance (%): ±1

Radius R₁ (mm): -45.84

Surface Quality: 40-20

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

Power (P-V) @ 632.8nm: 1.5λ

Irregularity (P-V) @ 632.8nm: λ/4

Regulatory Compliance

RoHS 2015: Compliant

Certificate of Conformance: [View](#)

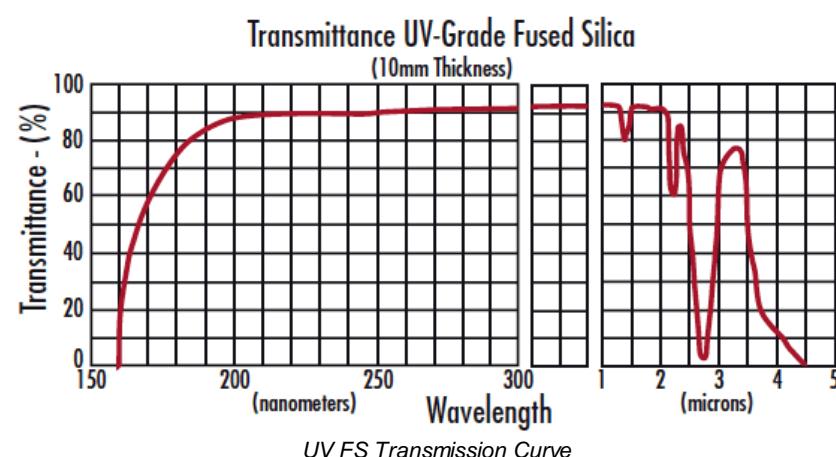
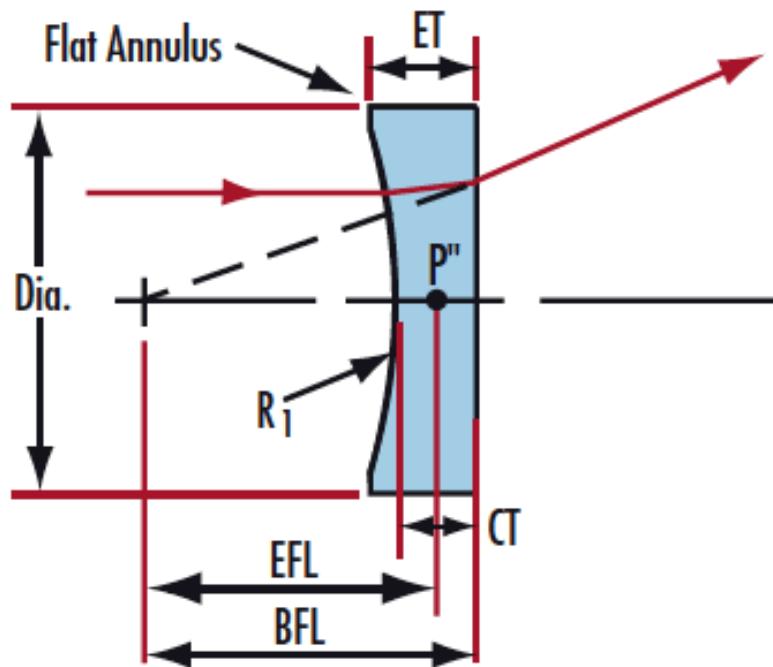
Reach 235: Compliant

PRODUCT DETAILS

- Negative Focal Lengths for Beam Expansion or Light Projection Applications
- Wavelength Range of 200 - 2200nm
- Popular UV-AR Coating Option Available

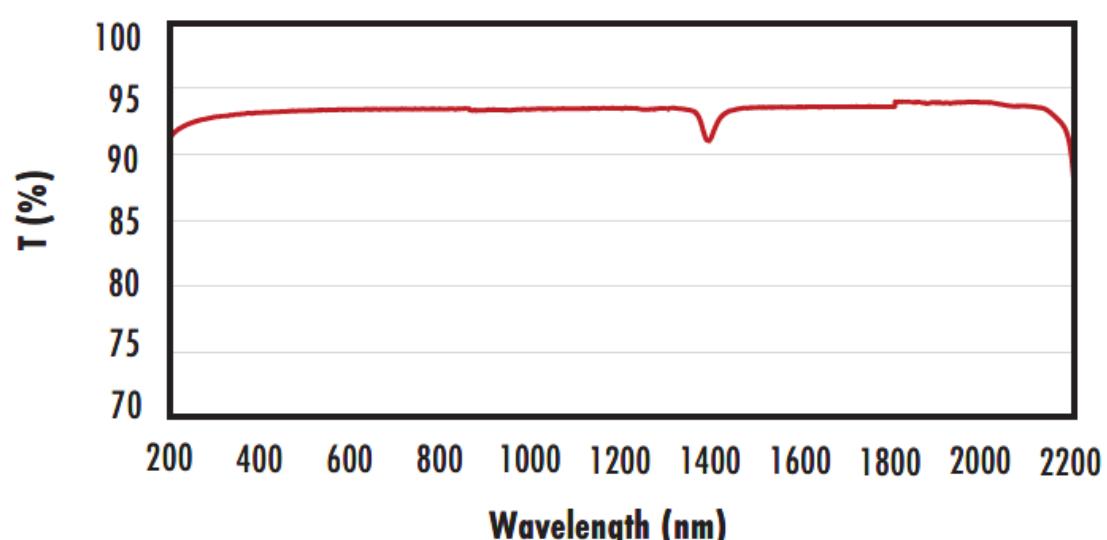
TECHSPEC® UV Fused Silica Plano-Concave (PCV) Lenses are high performance UV optic elements, manufactured utilizing state of the art CNC equipment. Zygō's GPI-XP Interferometer is used to assure the surface accuracy and performance of these UV optics. UV Grade lenses are precision manufactured using research-grade synthetic fused silica. In addition to providing excellent transmission characteristics and higher operating temperatures, synthetic fused silica also exhibits an exceptional inclusion specification and chemical purity. TECHSPEC® UV Fused Silica Plano-Concave (PCV) Lenses are an ideal choice for many laser and imaging applications, particularly those involving ultraviolet wavelengths. Abroadband anti-reflection coating is available for optimized throughput in the ultraviolet spectrum.

TECHNICAL INFORMATION



FUSED SILICA

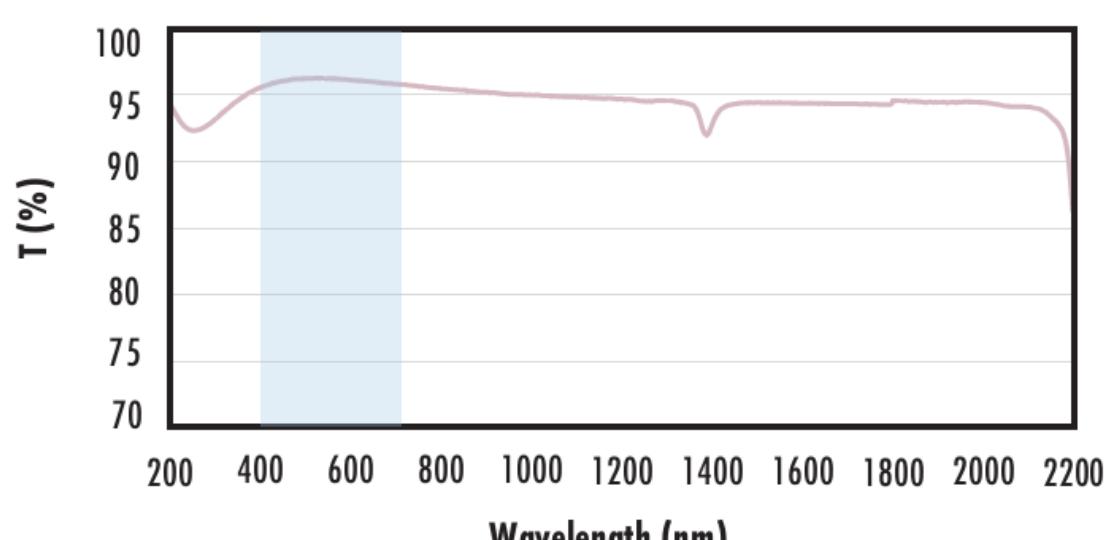
Uncoated Fused Silica Typical Transmission



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

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Fused Silica with MgF₂ Coating Typical Transmission



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

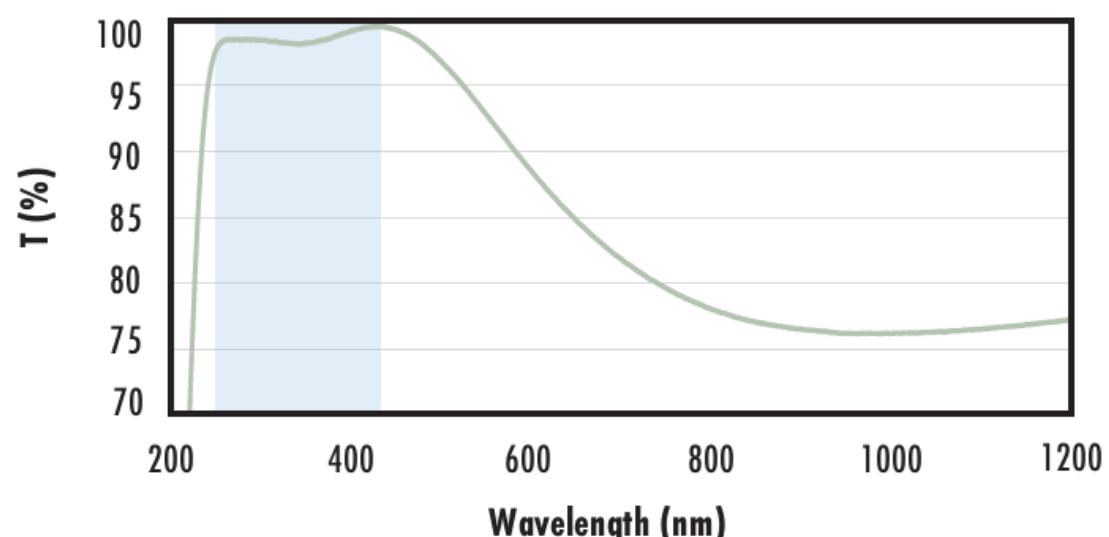
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

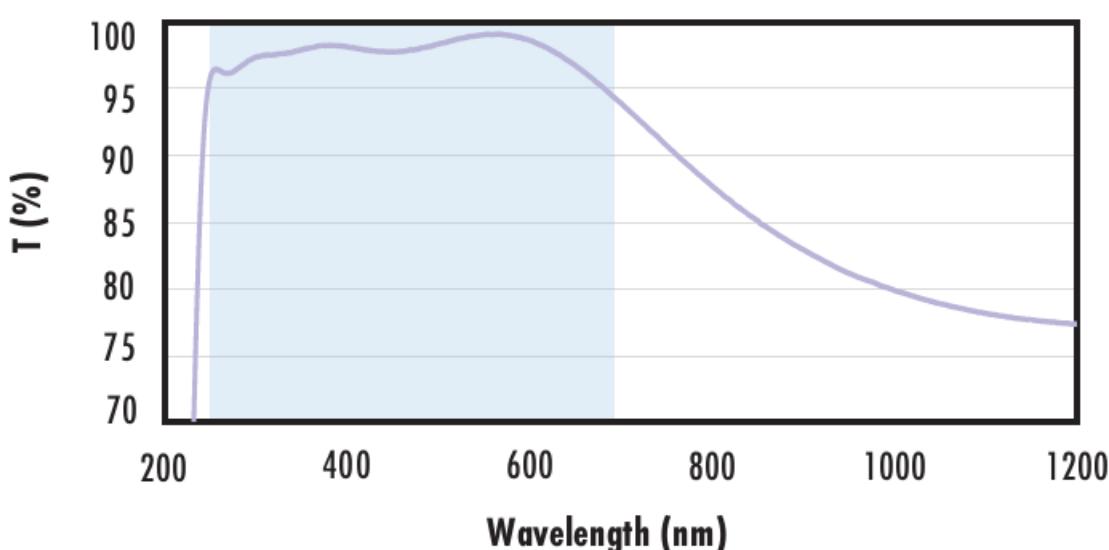
Data outside this range is not guaranteed and is for reference only.

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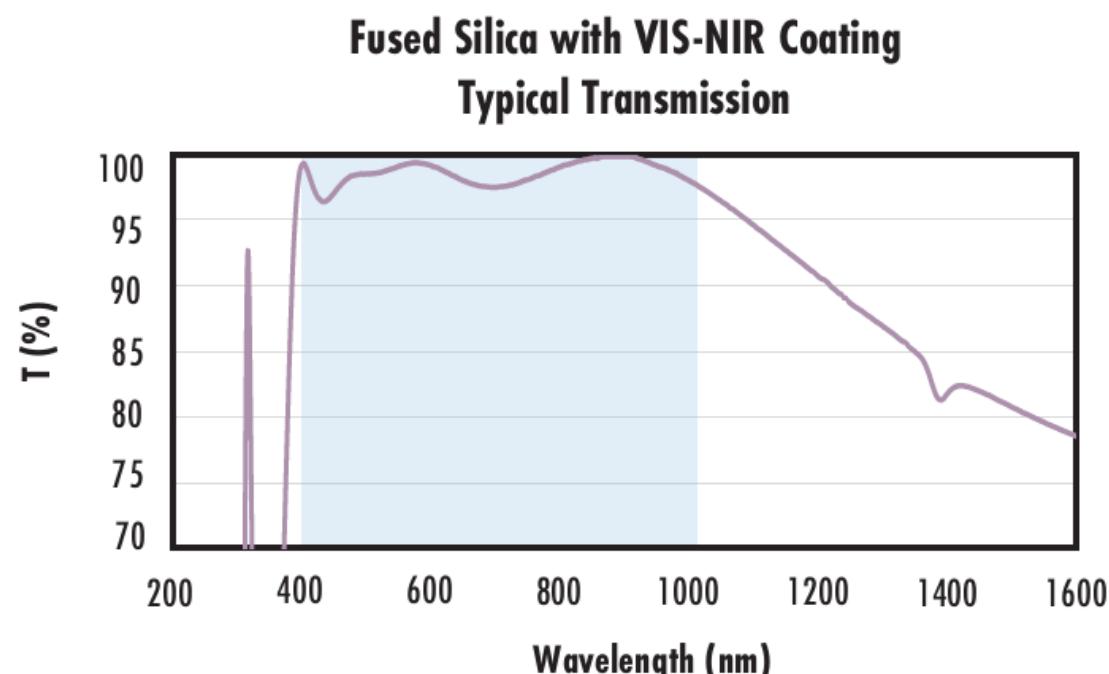
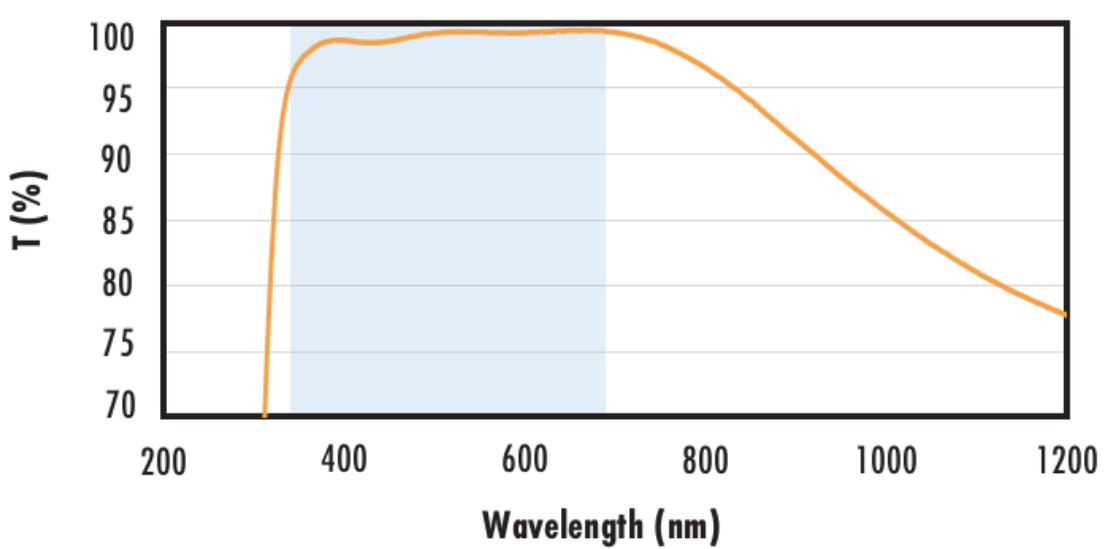
Fused Silica with UV-AR Coating Typical Transmission



Fused Silica with UV-VIS Coating Typical Transmission

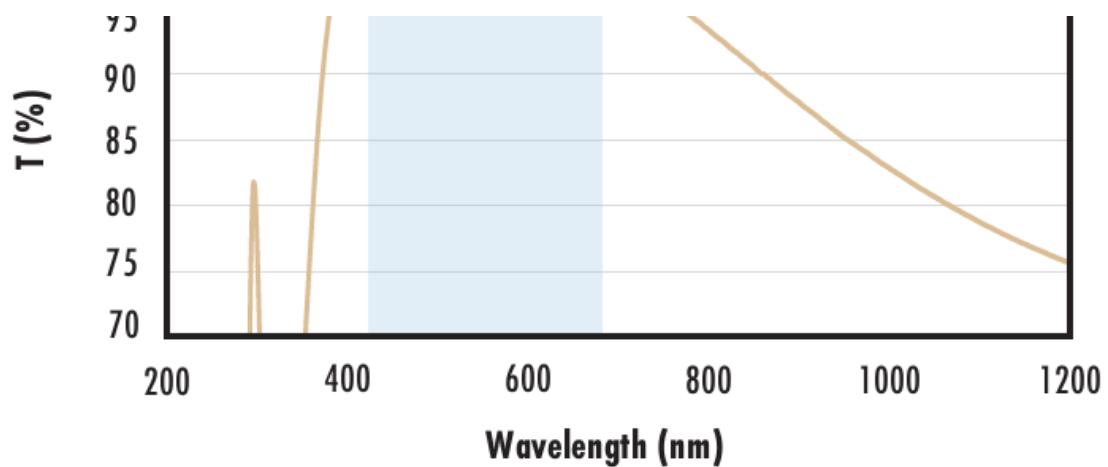


Fused Silica with VIS-EXT Coating Typical Transmission

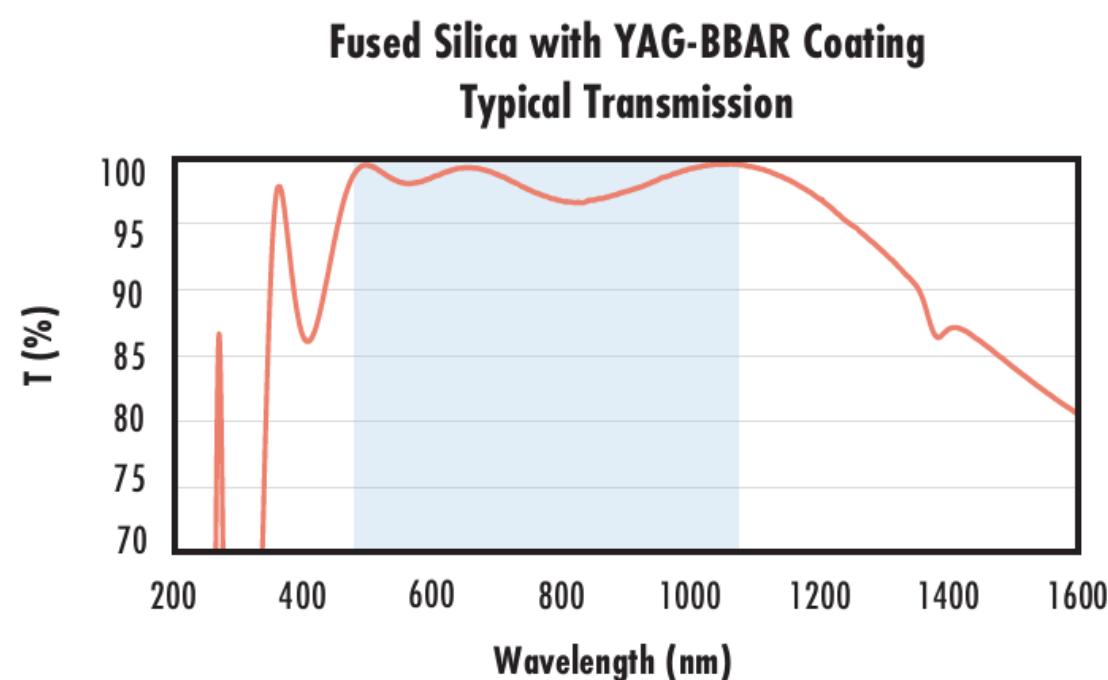


Fused Silica with VIS 0° Coating Typical Transmission

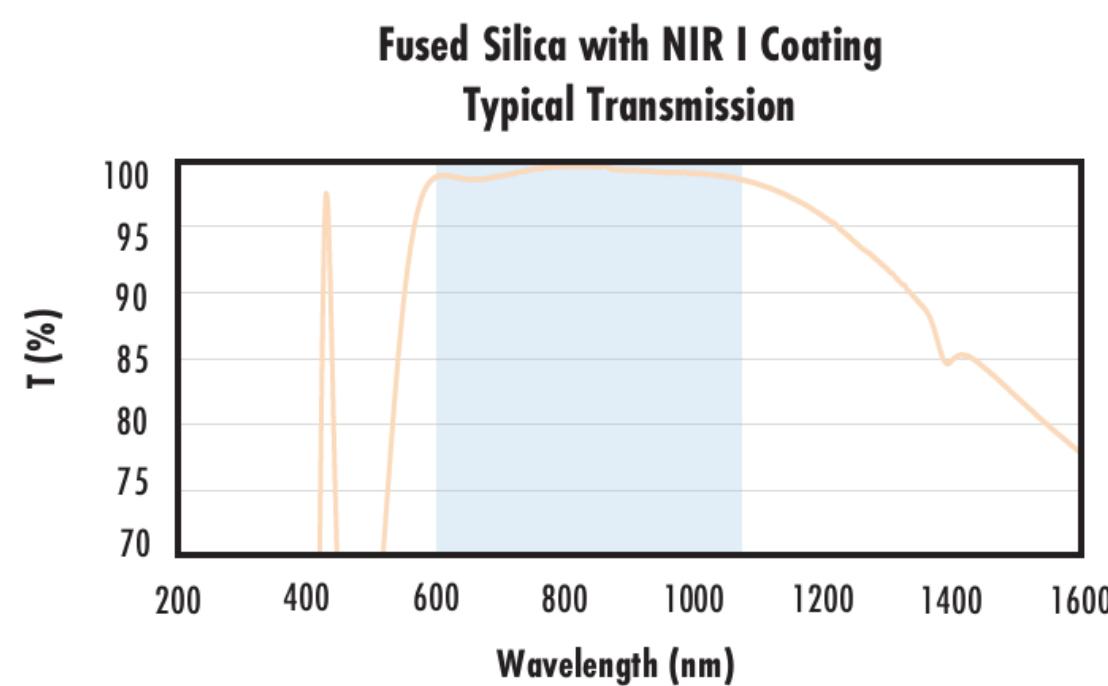




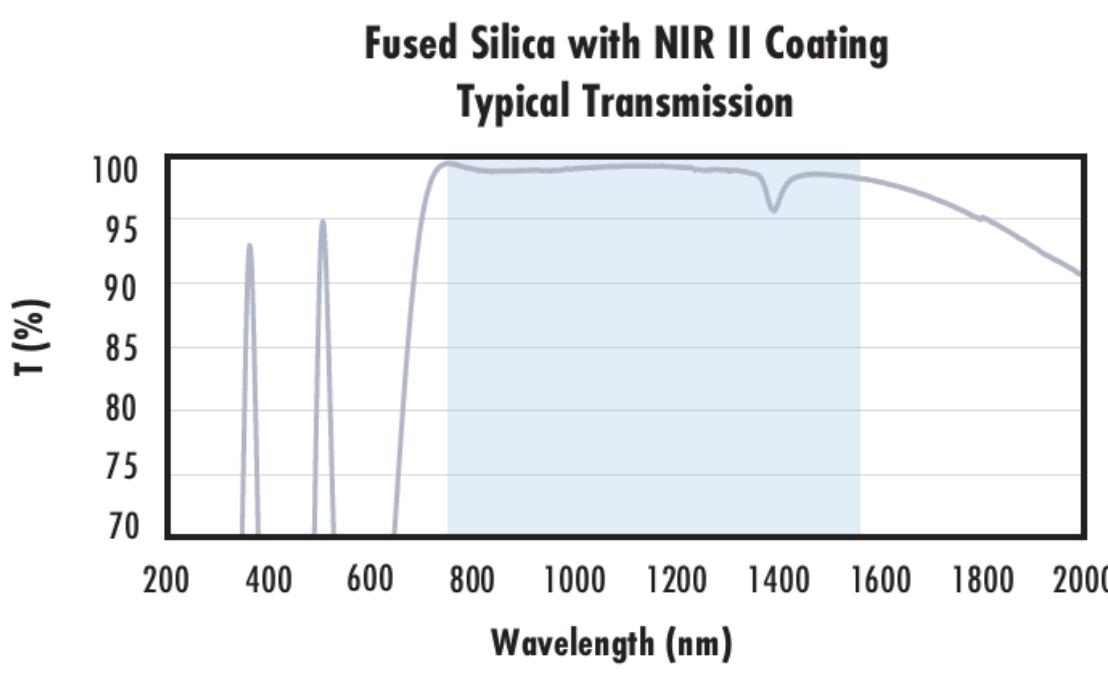
0° (425-675nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{avg} \leq 0.4\% @ 425 - 675nm$
 Data outside this range is not guaranteed and is for reference only.
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Typical 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](#)



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

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COMPATIBLE MOUNTS
