

TECHSPEC® 25.4 x 25.4mm x 50mm FL, UV-VIS Laser Grade PCX Cylinder Lens

TECHSPEC Beam Shaping Fused Silica Cylinder Lenses

Stock **#36-108** **4 In Stock** **A\$317⁰⁰****ADD TO CART**

Volume Pricing	
Qty 1-5	A\$317.00 each
Qty 6-25	A\$287.00 each
Qty 26-49	A\$273.00 each
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SPECIFICATIONS**General****Type:**

Cylinder Lens, Plano-Convex

Physical & Mechanical Properties

Protective as needed	Bevel:
5.00	Center Thickness CT (mm):
±0.1	Center Thickness Tolerance (mm):
22.86 x 22.86	Clear Aperture CA (mm):
+0.0/-0.025	Dimensional Tolerance (mm):
25.4 x 25.4	Dimensions (mm):
1.16	Edge Thickness ET (mm):
<3	Axial Twist (arcmin):

Optical Properties

50.00	Effective Focal Length EFL (mm):
2.00	Substrate: <input type="checkbox"/> Fused Silica (Corning 7980)
0.17	f#:
UV-VIS (250-700nm)	Numerical Aperture NA:
350 - 700	Coating:
46.58	Wavelength Range (nm):
22.93	Back Focal Length BFL (mm):
20-10	Coating Specification: R _{abs} ≤ 1.0% @ 350 - 450nm R _{avg} ≤ 1.5% @ 250 - 700nm
1.5λ	Radius R₁ (mm):
N/4	Surface Quality:
<3	Power (P-V) @ 632.8nm:
<4.5	Irregularity (P-V) @ 632.8nm:
	Plano Axis Wedge (arcmin):
	Power Axis Wedge (arcmin):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

PRODUCT DETAILS

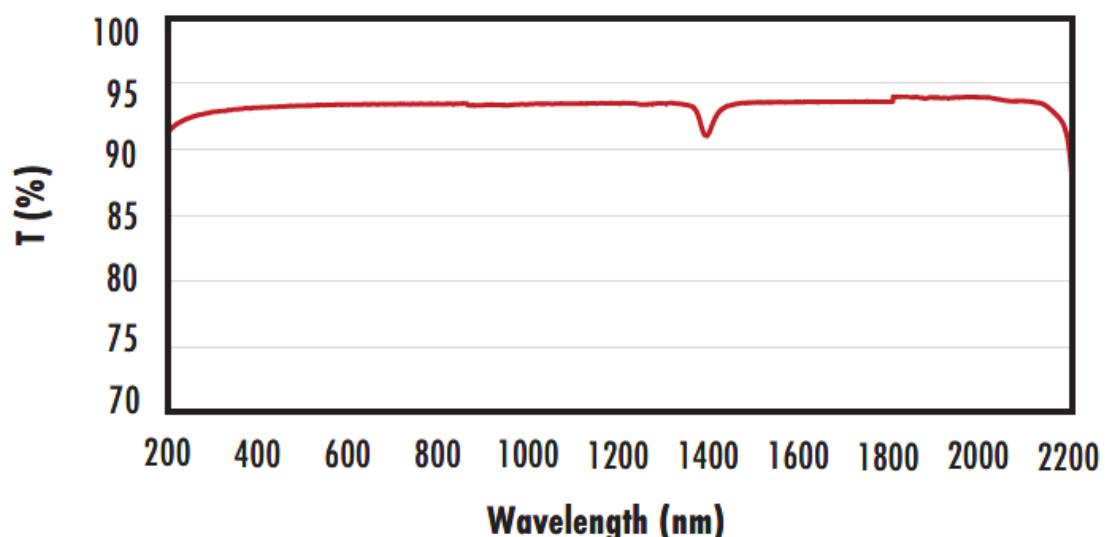
- Offers Superior Performance from UV to IR
- Fused Silica Substrate
- Laser Optic Surface Quality

TECHSPEC® Laser Grade Broadband Cylinder Lenses feature precision specifications for the most demanding applications. These lenses are constructed of premium grade fused silica optical glass and are tailored for laser applications with a surface quality of 20-10. Our TECHSPEC Laser Grade Broadband Cylinder Lenses feature tight wedge tolerances, typically less than 3 arcmin in all dimensions. Integration of these lenses is facilitated by square form factors allowing convenient mounting options.

TECHNICAL INFORMATION

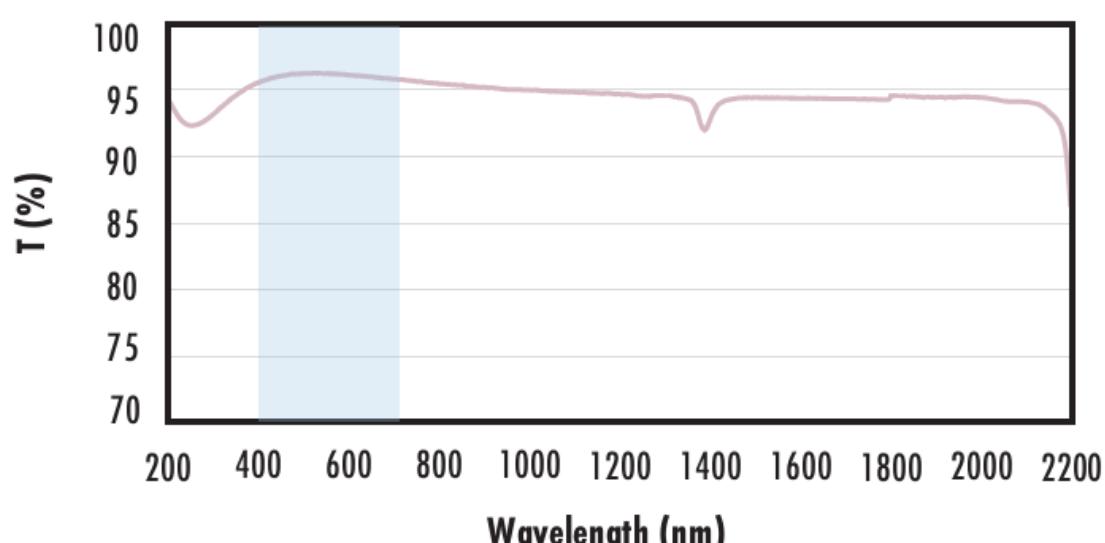
FUSED SILICA

Uncoated Fused Silica

Typical Transmission

Typical transmission of an uncoated fused silica window across the UV-NIR spectra.

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Fused Silica with MgF_2 Coating
Typical Transmission

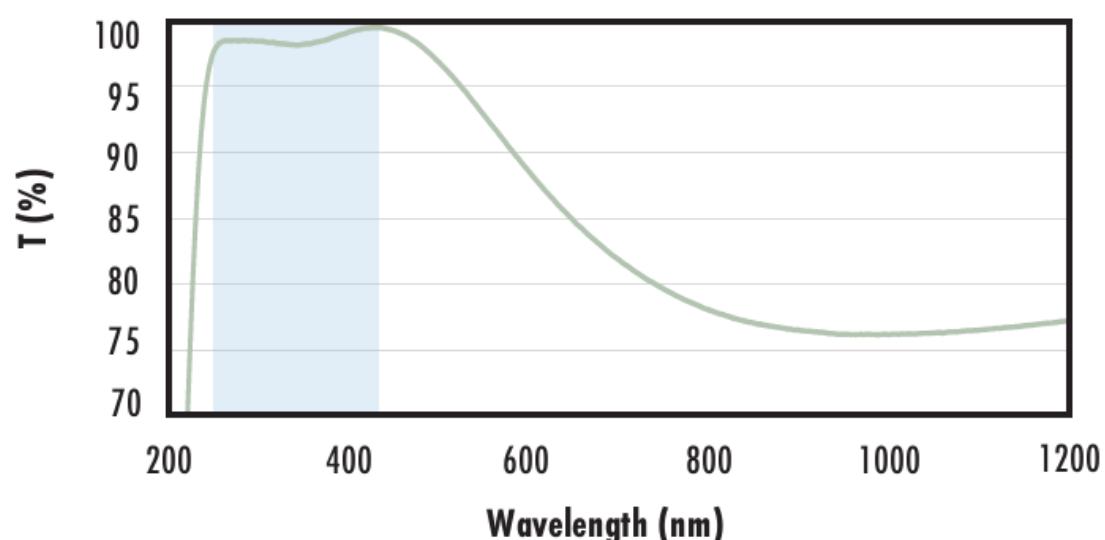
Typical transmission of a fused silica window with MgF_2 (400-700nm) coating at 0° AOI.

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

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

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

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Fused Silica with UV-AR Coating
Typical Transmission

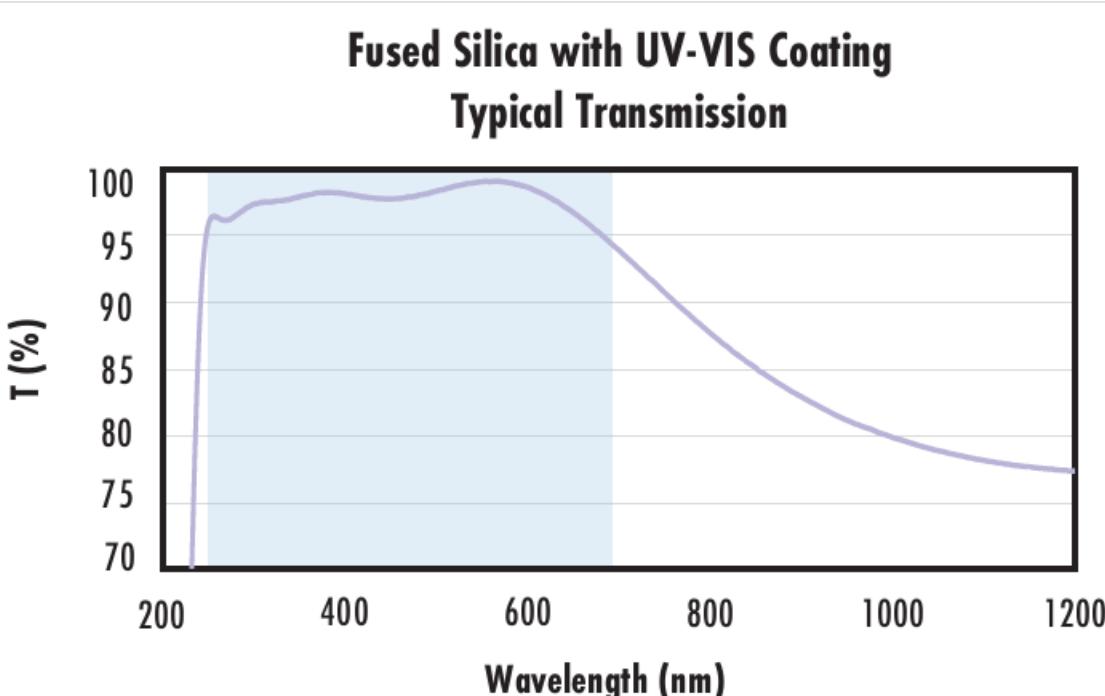
Typical transmission of a fused silica window with UV-AR (250-425nm) coating at 0° AOI.

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

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

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

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

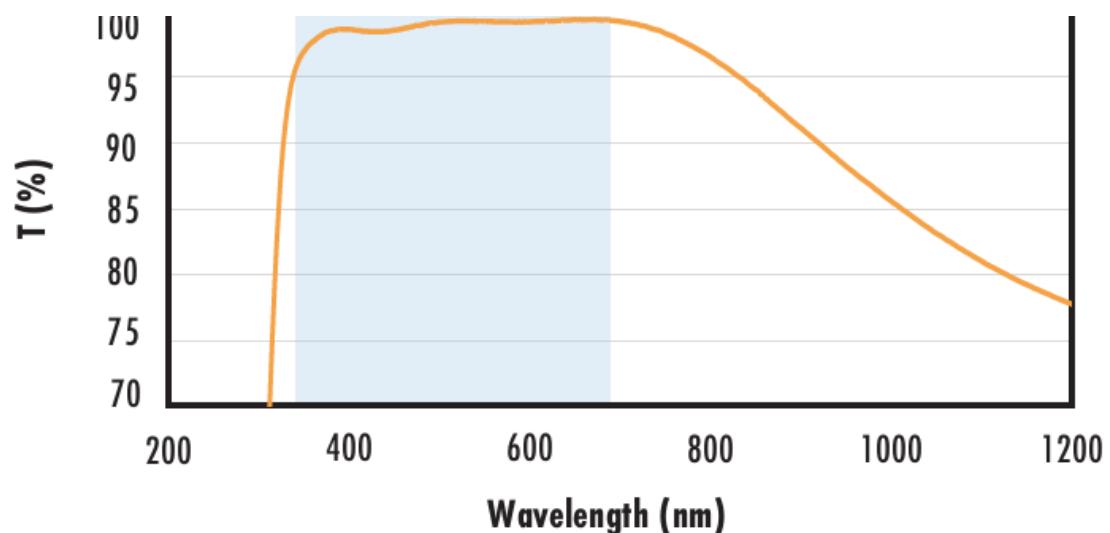
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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Fused Silica with VIS-EXT Coating
Typical Transmission



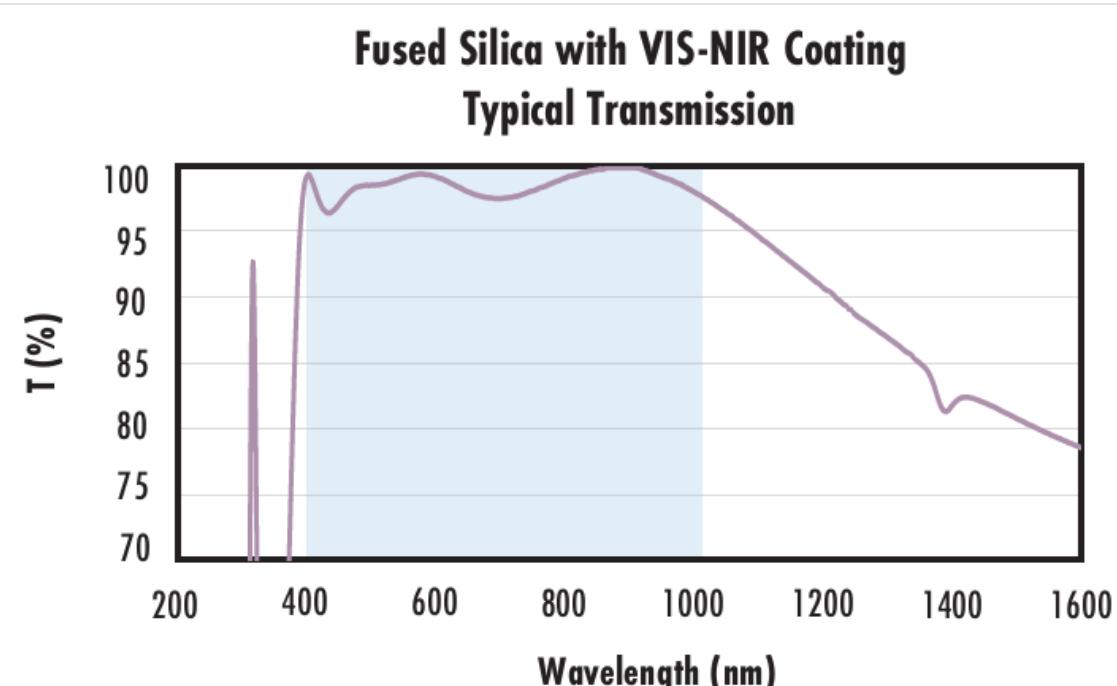
Typical transmission of a fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

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.

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Typical transmission of a 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:

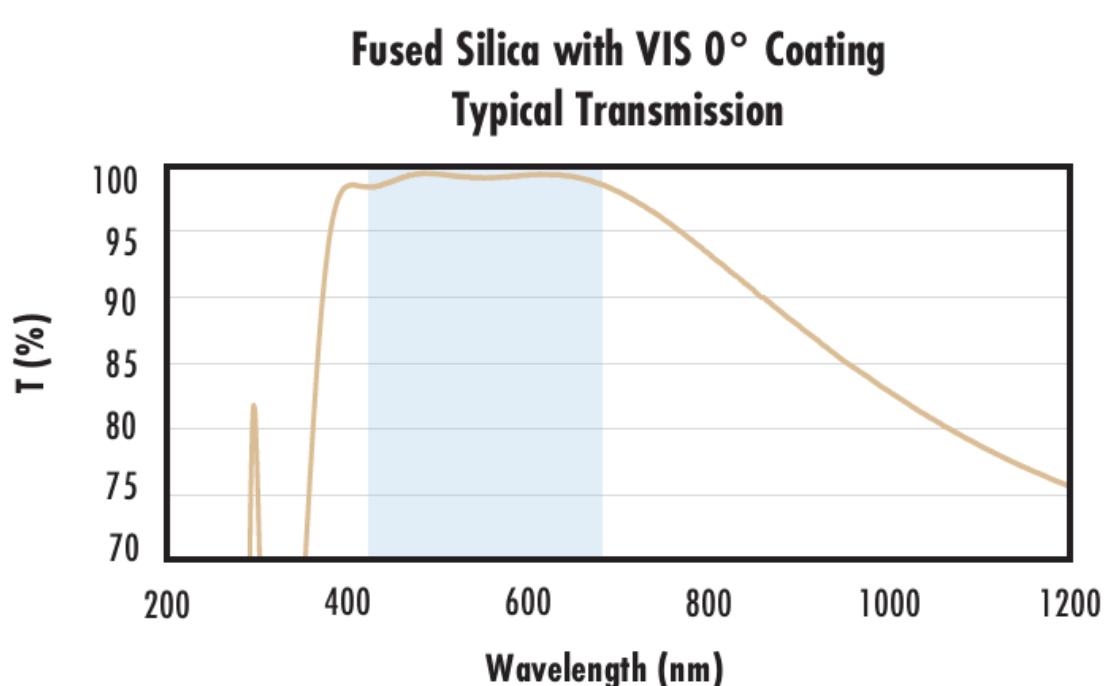
$$R_{abs} \leq 0.25\% @ 880nm$$

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

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

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

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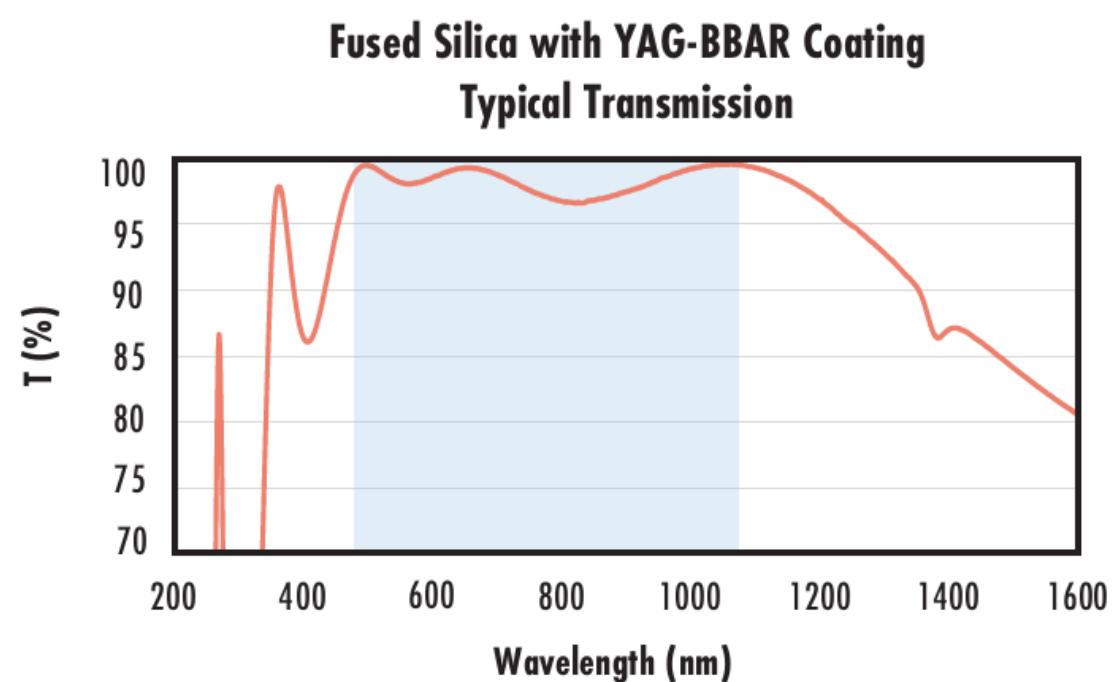
Typical transmission of a fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

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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Typical transmission of a 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:

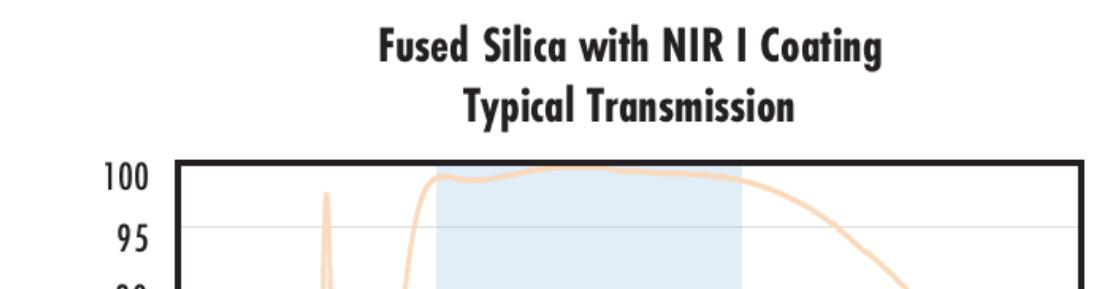
$$R_{abs} \leq 0.25\% @ 532nm$$

$$R_{abs} \leq 0.25\% @ 1064nm$$

$$R_{avg} \leq 1.0\% @ 500 - 1100nm$$

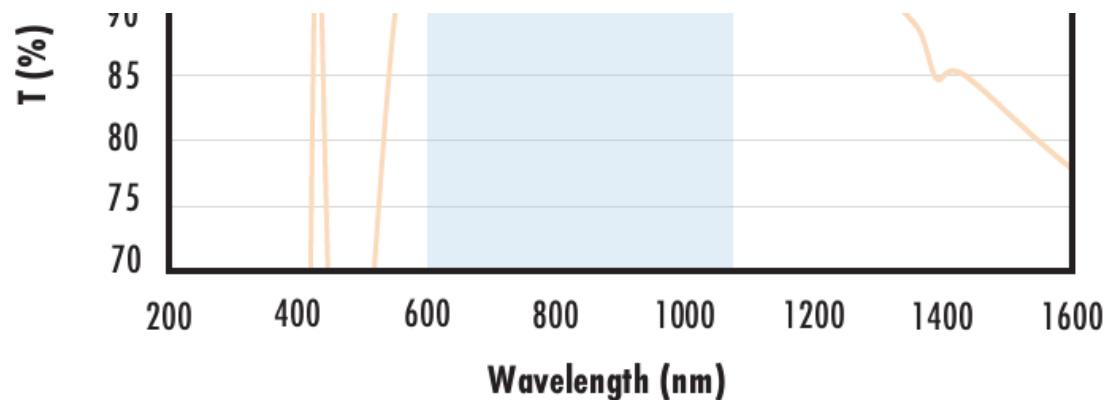
Data outside this range is not guaranteed and is for reference only.

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

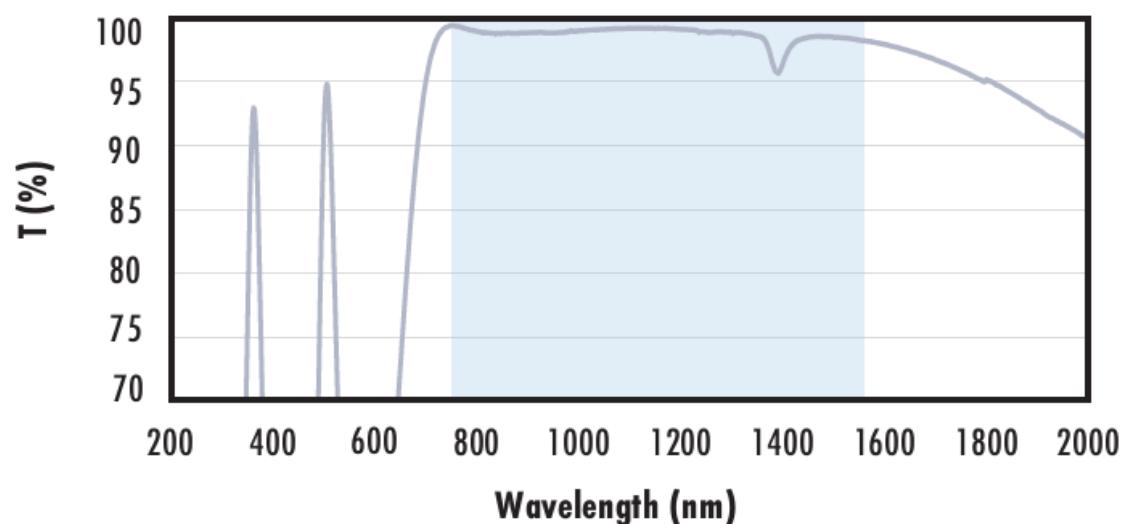
The blue shaded region indicates the coating design wavelength



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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Fused Silica with NIR II Coating Typical Transmission



Typical transmission of a 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

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