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



TECHSPEC Beam Shaping Fused Silica Cylinder Lenses

Stock **#36-113** **9 In Stock**

⊖ 1 ⊕ ₹14,402

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Volume Pricing	
Qty 1-5	₹14,402 each
Qty 6-25	₹13,001 each
Qty 26-49	₹12,378 each
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**General**

Cylinder Lens, Plano-Concave **Type:**

**Physical & Mechanical Properties**

Protective as needed **Bevel:**

3.00 **Center Thickness CT (mm):**

±0.1	<b>Center Thickness Tolerance (mm):</b>
22.86 x 22.86	<b>Clear Aperture CA (mm):</b>
+0.0/-0.025	<b>Dimensional Tolerance (mm):</b>
25.4 x 25.4	<b>Dimensions (mm):</b>
6.64	<b>Edge Thickness ET (mm):</b>
<3	<b>Axial Twist (arcmin):</b>

## Optical Properties

-50.00	<b>Effective Focal Length EFL (mm):</b>
<a href="#">Fused Silica</a> (Corning 7980)	<b>Substrate:</b> <input type="checkbox"/>
2.00	<b>f#:</b>
0.25	<b>Numerical Aperture NA:</b>
UV-VIS (250-700nm)	<b>Coating:</b>
350 - 700	<b>Wavelength Range (nm):</b>
-52.06	<b>Back Focal Length BFL (mm):</b>
R <sub>abs</sub> ≤ 1.0% @ 350 - 450nm R <sub>avg</sub> ≤ 1.5% @ 250 - 700nm	<b>Coating Specification:</b>
22.93	<b>Radius R<sub>1</sub> (mm):</b>
20-10	<b>Surface Quality:</b>
1.5λ	<b>Power (P-V) @ 632.8nm:</b>
M4	<b>Irregularity (P-V) @ 632.8nm:</b>
<3	<b>Plano Axis Wedge (arcmin):</b>
<4.5	<b>Power Axis Wedge (arcmin):</b>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 235:</b>
China	<b>Country of Origin:</b>
Edmund Optics India Private Limited	<b>Imported By:</b>

## Need different specs or modifications?

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](#).

## Product Details

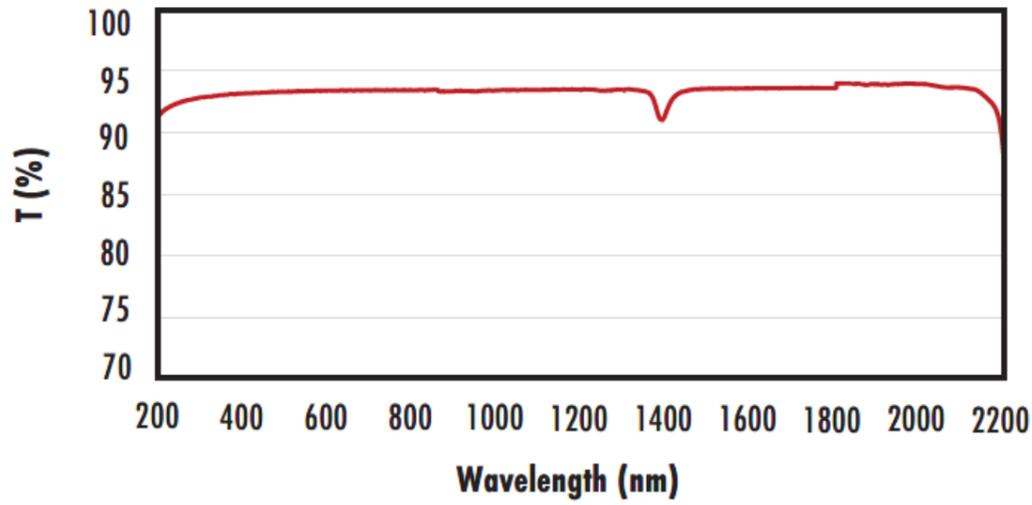
- Offers Superior Performance from UV to IR
- Fused Silica Substrate
- Laser Optic Surface Quality

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

## Technical Information

### FUSED SILICA

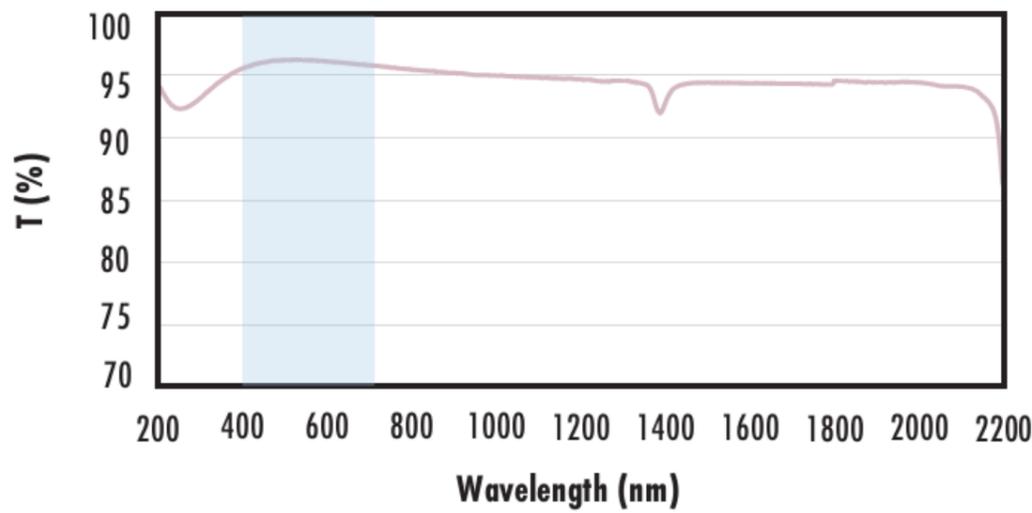
#### Uncoated Fused Silica Typical Transmission



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

[Click Here to Download Data](#)

#### Fused Silica with MgF<sub>2</sub> Coating Typical Transmission



Typical transmission of a fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.

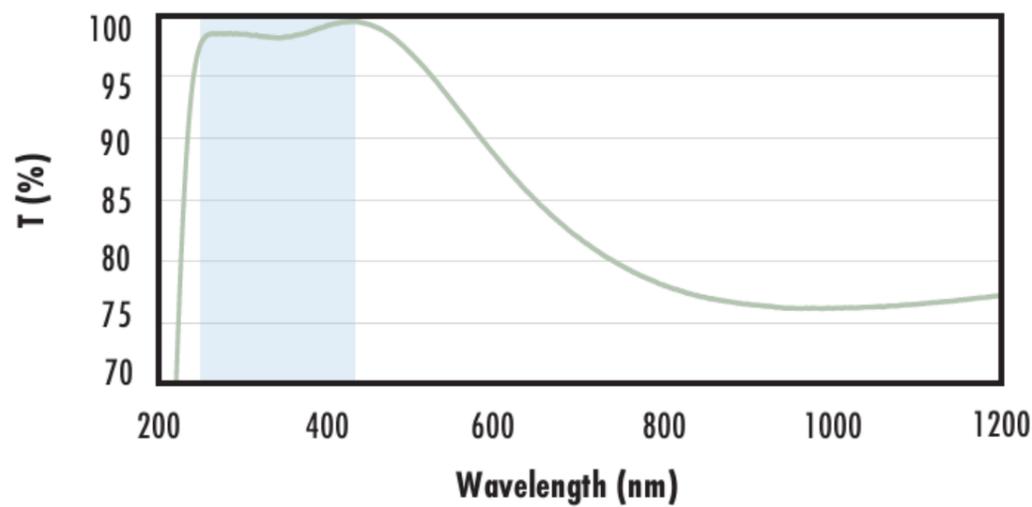
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

[Click Here to Download Data](#)

#### 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:

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

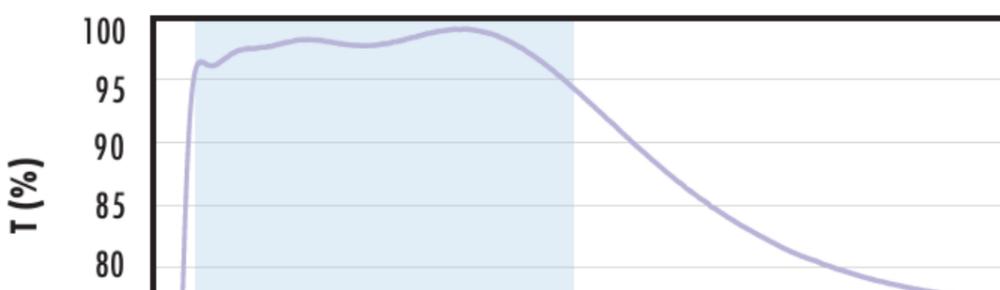
$$R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$$

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

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

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#### Fused Silica with UV-VIS Coating Typical Transmission



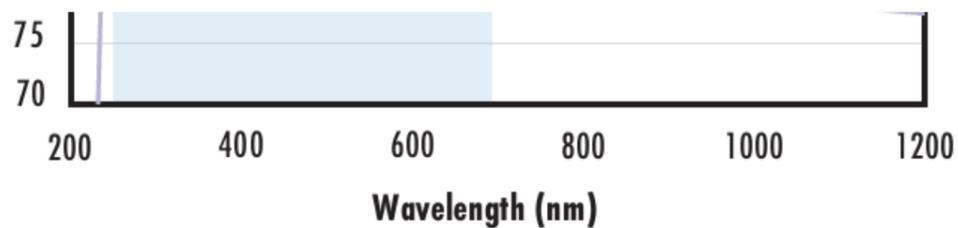
Typical transmission of a fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

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

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

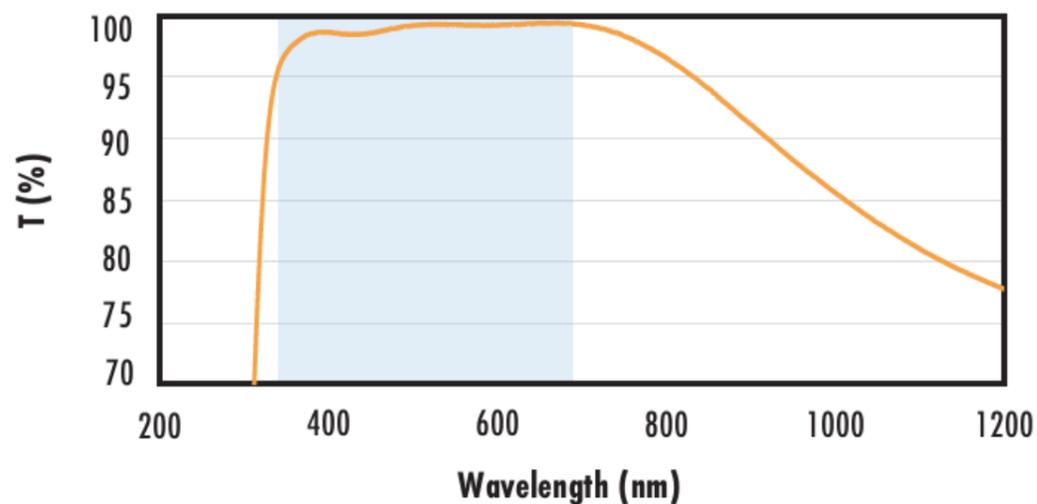
$$R_{avg} \leq 1.5\% @ 250 - 700\text{nm}$$

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



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**Fused Silica with VIS-EXT Coating  
Typical Transmission**



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

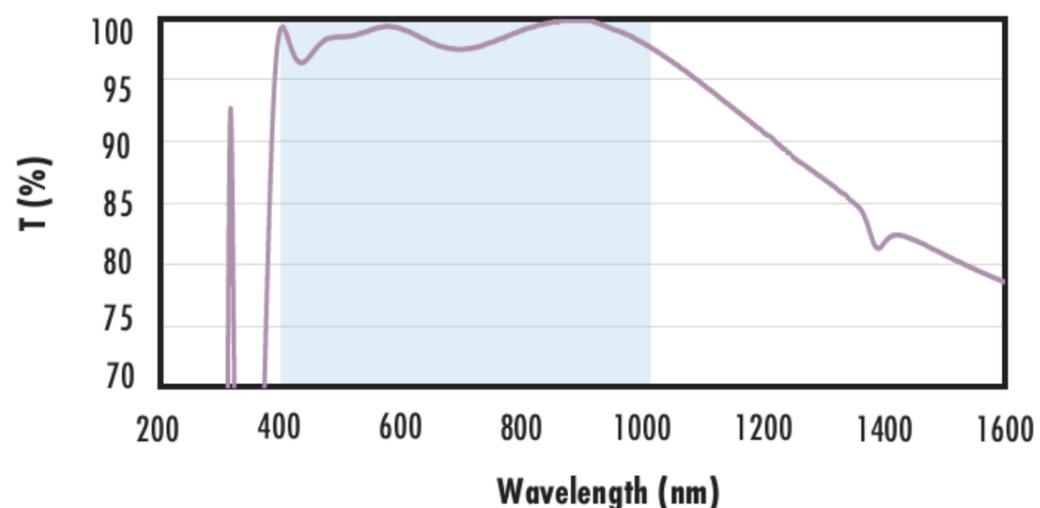
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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 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:

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

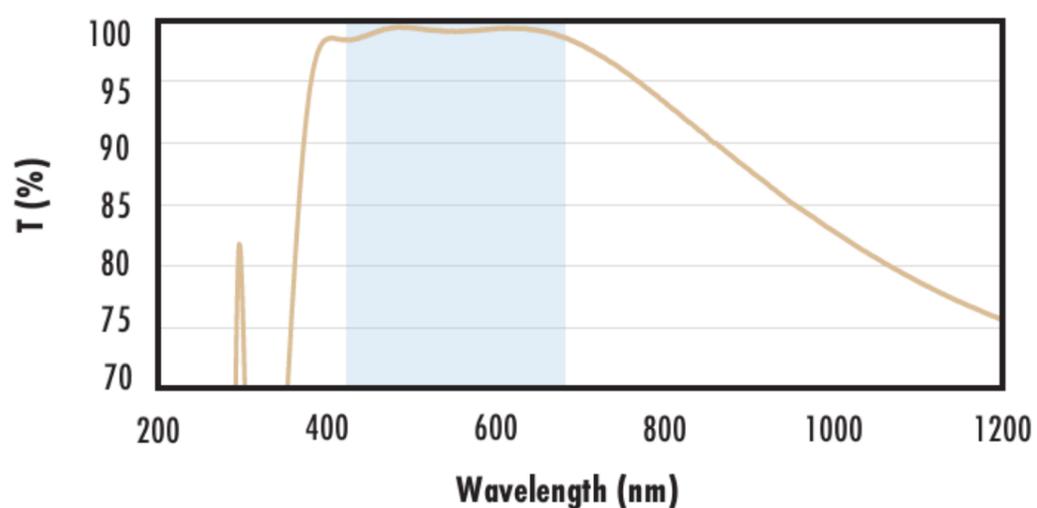
$$R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$$

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

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

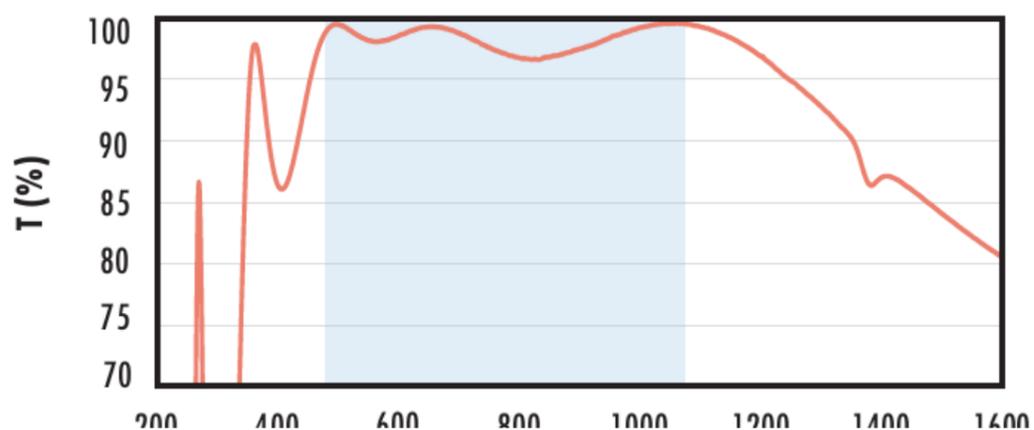
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$$

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

[Click Here to Download Data](#)

**Fused Silica with YAG-BBAR Coating  
Typical Transmission**



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:

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

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

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

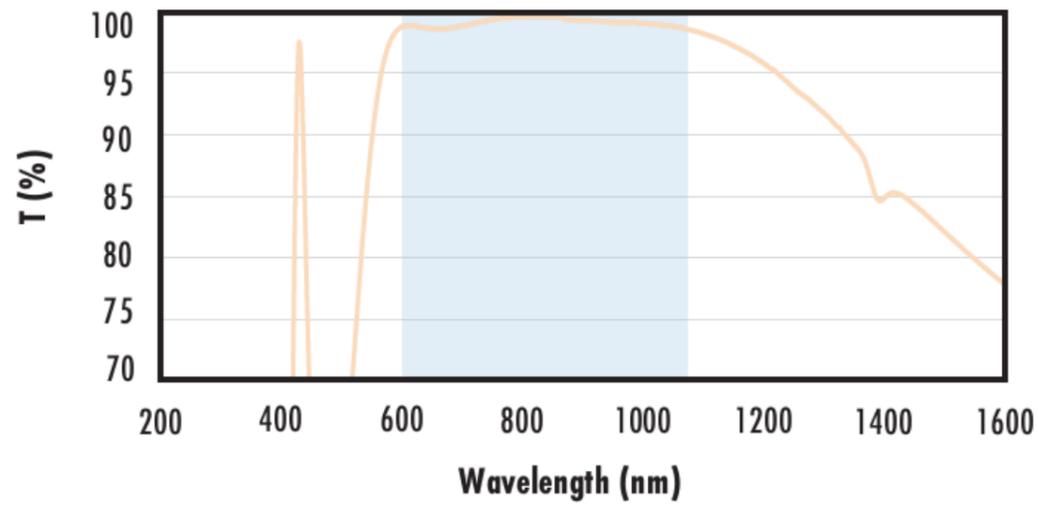
Data outside this range is not guaranteed and is for reference only.

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200 400 600 800 1000 1200 1400 1600

Wavelength (nm)

### Fused Silica with NIR I Coating Typical Transmission



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

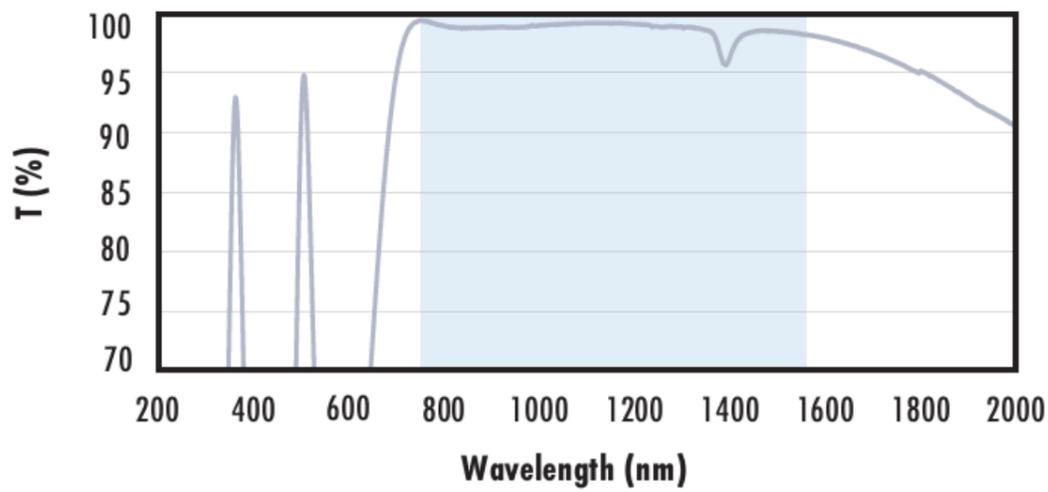
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.5\% @ 600 - 1050nm$$

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:

$$R_{abs} \leq 1.5\% @ 750 - 800nm$$

$$R_{abs} \leq 1.0\% @ 800 - 1550nm$$

$$R_{avg} \leq 0.7\% @ 750 - 1550nm$$

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

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