

TECHSPEC<sup>®</sup> 12.7 x 12.7mm x -25mm FL, Uncoated Laser Grade PCV Cylinder Lens



TECHSPEC Beam Shaping Fused Silica Cylinder Lenses

Stock **#13-468** 20+ In Stock

-

1

+

S\$188<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
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| Qty 1-5        | S\$188.00 each                |
| Qty 6+         | S\$168.00 each                |
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General

Cylinder Lens, Plano-Concave

Type:

Physical & Mechanical Properties

Protective as needed

Bevel:

3.00

Center Thickness CT (mm):

Center Thickness Tolerance (mm):

|                             |                         |
|-----------------------------|-------------------------|
| ±0.1                        | Clear Aperture CA (mm): |
| 11.43 x 11.43               |                         |
| Dimensional Tolerance (mm): |                         |
| +0.0/-0.025                 |                         |
| Dimensions (mm):            |                         |
| 12.7 x 12.7                 |                         |
| Edge Thickness ET (mm):     |                         |
| 4.73                        |                         |
| Axial Twist (arcmin):       |                         |
| <3                          |                         |

|                                             |  |
|---------------------------------------------|--|
| Optical Properties                          |  |
| Effective Focal Length EFL (mm):            |  |
| -25.00                                      |  |
| Substrate: <input type="checkbox"/>         |  |
| Fused Silica (Corning 7980)                 |  |
| f##:                                        |  |
| 2                                           |  |
| Numerical Aperture NA:                      |  |
| 0.25                                        |  |
| Coating:                                    |  |
| Uncoated                                    |  |
| Wavelength Range (nm):                      |  |
| 200 - 2200                                  |  |
| Back Focal Length BFL (mm):                 |  |
| -27.06                                      |  |
| Focal Length Specification Wavelength (nm): |  |
| 587.6                                       |  |
| Radius R <sub>1</sub> (mm):                 |  |
| -11.46                                      |  |
| Surface Quality:                            |  |
| 20-10                                       |  |
| Power (P-V) @ 632.8nm:                      |  |
| 1.5λ                                        |  |
| Irregularity (P-V) @ 632.8nm:               |  |
| λ/4                                         |  |
| Plano Axis Wedge (arcmin):                  |  |
| <3                                          |  |
| Power Axis Wedge (arcmin):                  |  |
| <4.5                                        |  |

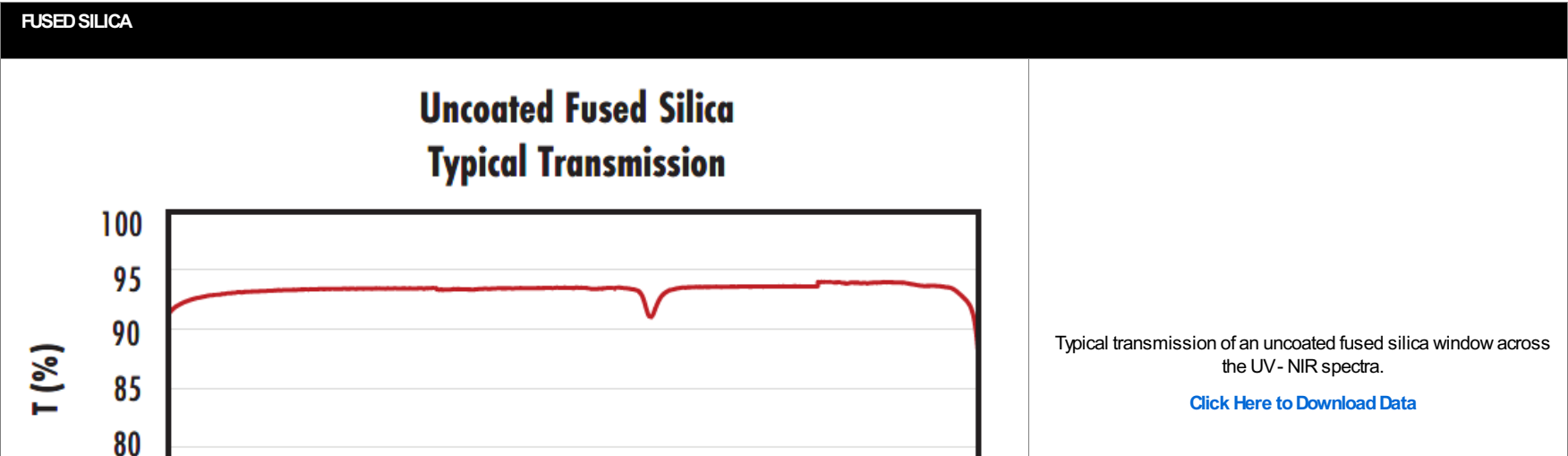
|                             |  |
|-----------------------------|--|
| Regulatory Compliance       |  |
| Certificate of Conformance: |  |
| <a href="#">View</a>        |  |

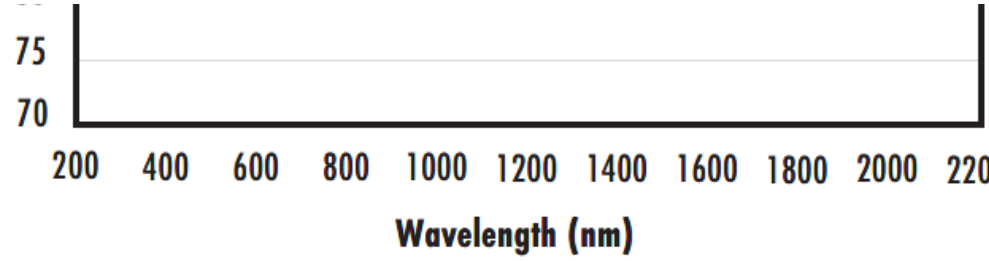
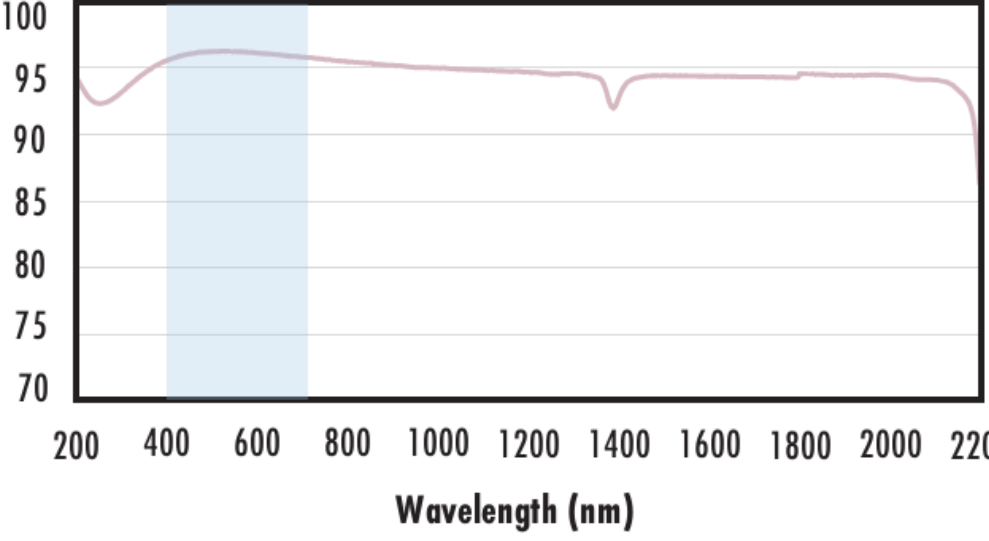
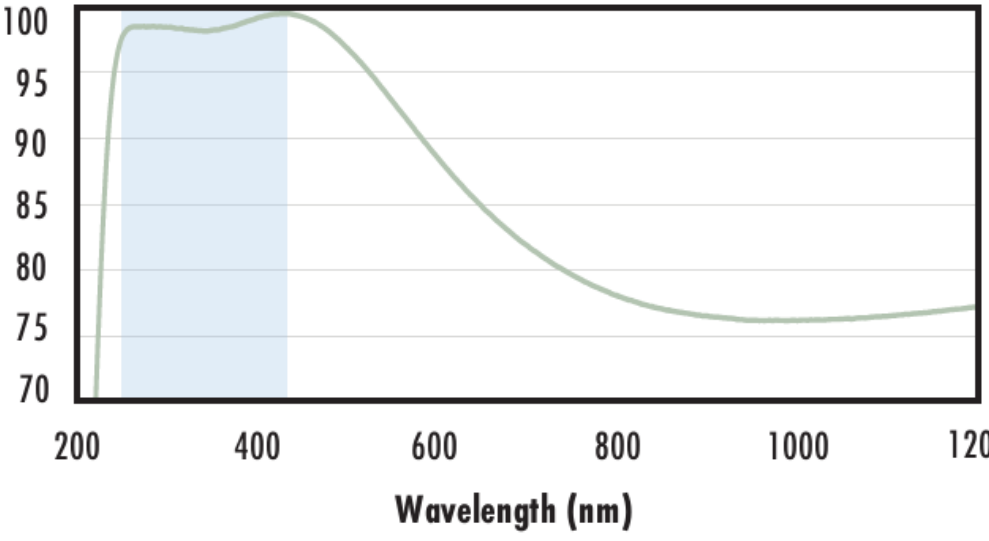
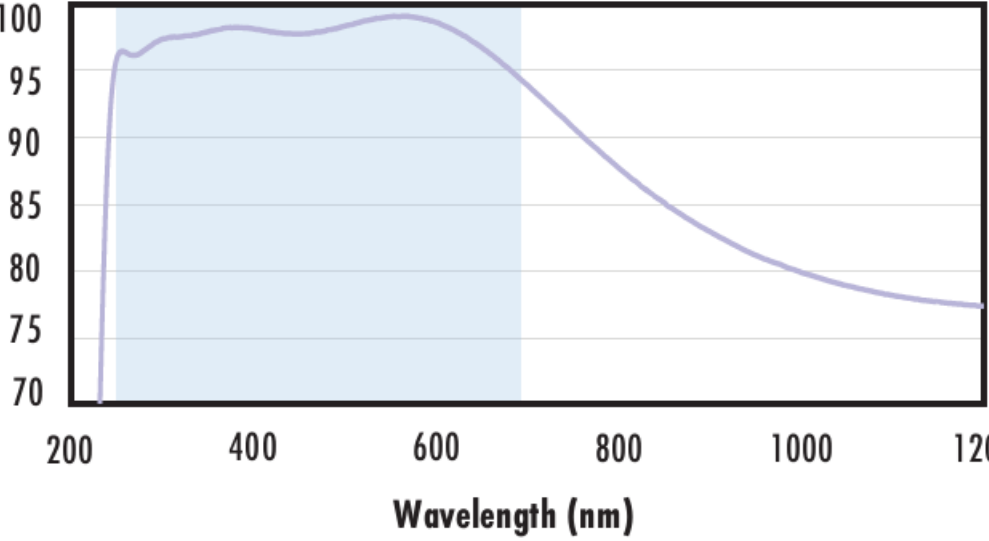
## Product Details

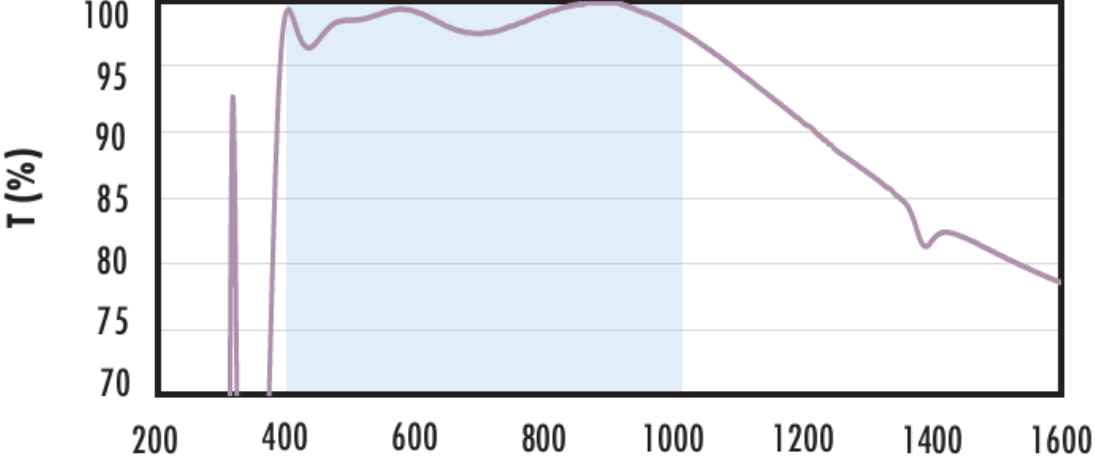
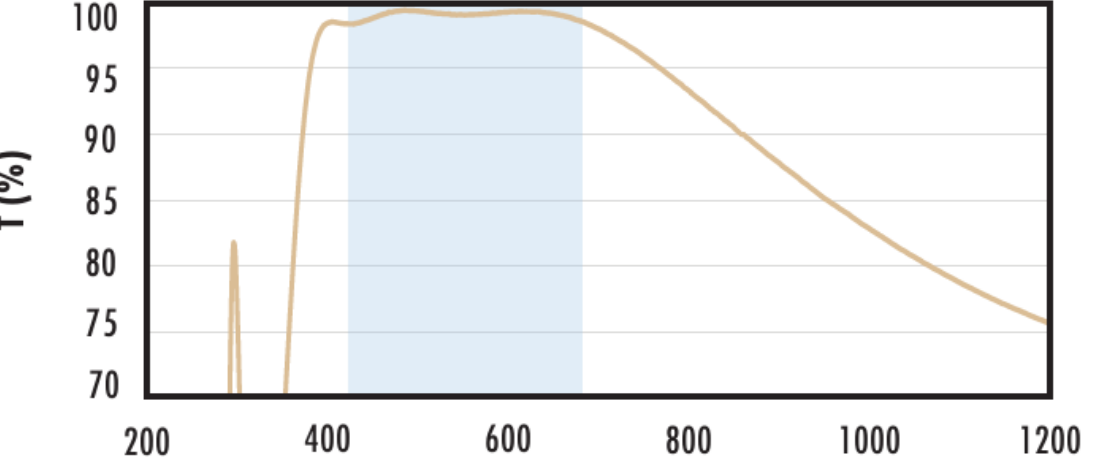
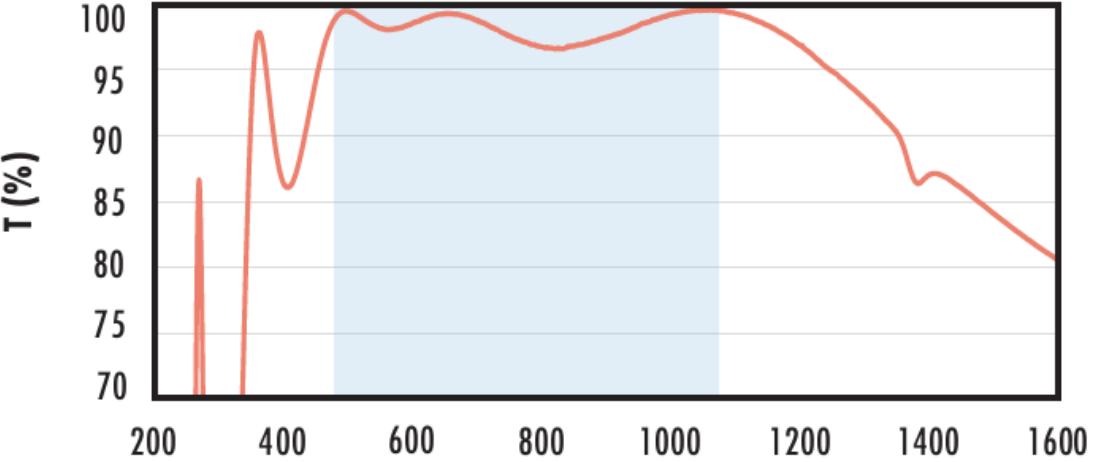
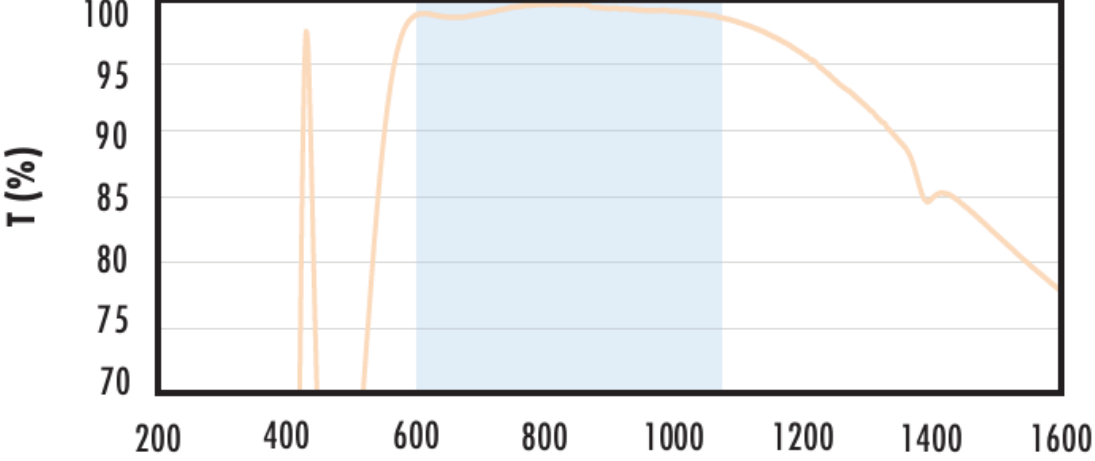
- Offers Superior Performance from UV to IR
- Fused Silica Substrate
- Laser Optic Surface Quality

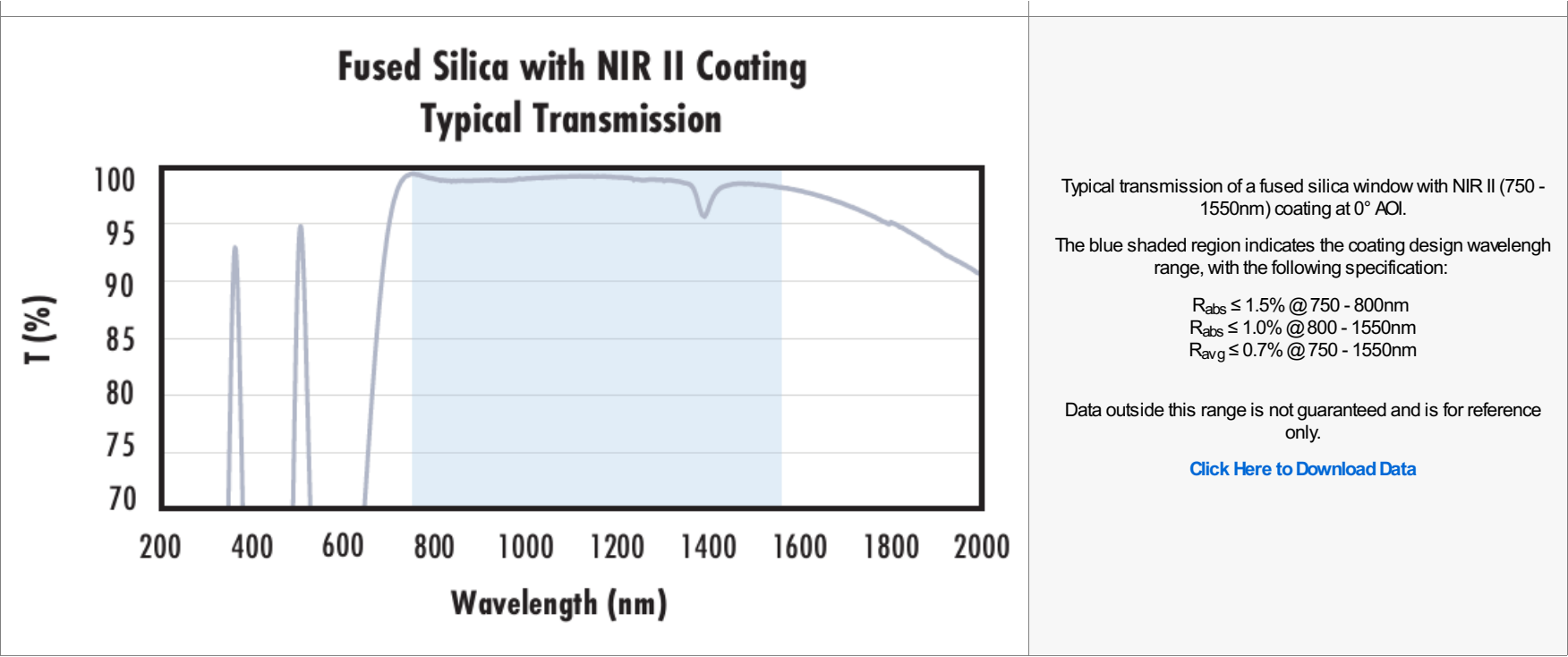
TECHSPEC® Laser Grade Broadband Cylinder Lenses feature precision specifications for the most demanding applications. These lenses are constructed of premium grade fused silica optical glass and are tailored for laser applications with a surface quality of 20-10. Our TECHSPEC Laser Grade Broadband Cylinder 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



|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p data-bbox="592 350 1066 460"><b>Fused Silica with MgF<sub>2</sub> Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1339 537 1843 587">Typical transmission of a fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.</p> <p data-bbox="1339 599 1850 649">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1436 661 1749 688"><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</p> <p data-bbox="1339 700 1839 750">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 762 1709 786"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                 |
| <p data-bbox="581 1029 1077 1139"><b>Fused Silica with UV-AR Coating</b><br/><b>Typical Transmission</b></p>        | <p data-bbox="1339 1193 1843 1243">Typical transmission of a fused silica window with UV-AR (250-425nm) coating at 0° AOI.</p> <p data-bbox="1339 1255 1850 1305">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1317 1703 1344"><math>R_{abs} \leq 1.0\% @ 250 - 425\text{nm}</math></p> <p data-bbox="1478 1341 1709 1368"><math>R_{avg} \leq 0.75\% @ 250 - 425\text{nm}</math></p> <p data-bbox="1478 1365 1705 1391"><math>R_{avg} \leq 0.5\% @ 370 - 420\text{nm}</math></p> <p data-bbox="1339 1403 1839 1454">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1466 1709 1489"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="573 1709 1085 1819"><b>Fused Silica with UV-VIS Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1339 1872 1843 1923">Typical transmission of a fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</p> <p data-bbox="1339 1935 1850 1985">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1997 1703 2024"><math>R_{abs} \leq 1.0\% @ 350 - 450\text{nm}</math></p> <p data-bbox="1478 2021 1705 2047"><math>R_{avg} \leq 1.5\% @ 250 - 700\text{nm}</math></p> <p data-bbox="1339 2083 1839 2133">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 2145 1709 2169"><a href="#">Click Here to Download Data</a></p>                                                                                             |
| <p data-bbox="567 2389 1079 2499"><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>      | <p data-bbox="1339 2573 1843 2623">Typical transmission of a fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1339 2635 1850 2686">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 2697 1705 2724"><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p data-bbox="1339 2736 1839 2786">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 2798 1709 2822"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                        |

|                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>20040060080010001200</div> <div>Wavelength (nm)</div>                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <div>Fused Silica with VIS-NIR Coating</div> <div>Typical Transmission</div> <div></div> <div>Wavelength (nm)</div>    | <div>Typical transmission of a fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}</math><math>R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}</math><math>R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}</math></div></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div> |
| <div>Fused Silica with VIS 0° Coating</div> <div>Typical Transmission</div> <div></div> <div>Wavelength (nm)</div>   | <div>Typical transmission of a fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{avg} \leq 0.4\% \text{ @ } 425 - 675\text{nm}</math></div></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                                                                           |
| <div>Fused Silica with YAG-BBAR Coating</div> <div>Typical Transmission</div> <div></div> <div>Wavelength (nm)</div> | <div>Typical transmission of a fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{abs} \leq 0.25\% \text{ @ } 532\text{nm}</math><math>R_{abs} \leq 0.25\% \text{ @ } 1064\text{nm}</math><math>R_{avg} \leq 1.0\% \text{ @ } 500 - 1100\text{nm}</math></div></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>      |
| <div>Fused Silica with NIR I Coating</div> <div>Typical Transmission</div> <div></div> <div>Wavelength (nm)</div>    | <div>Typical transmission of a fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{avg} \leq 0.5\% \text{ @ } 600 - 1050\text{nm}</math></div></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                                                                        |



## 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](#).