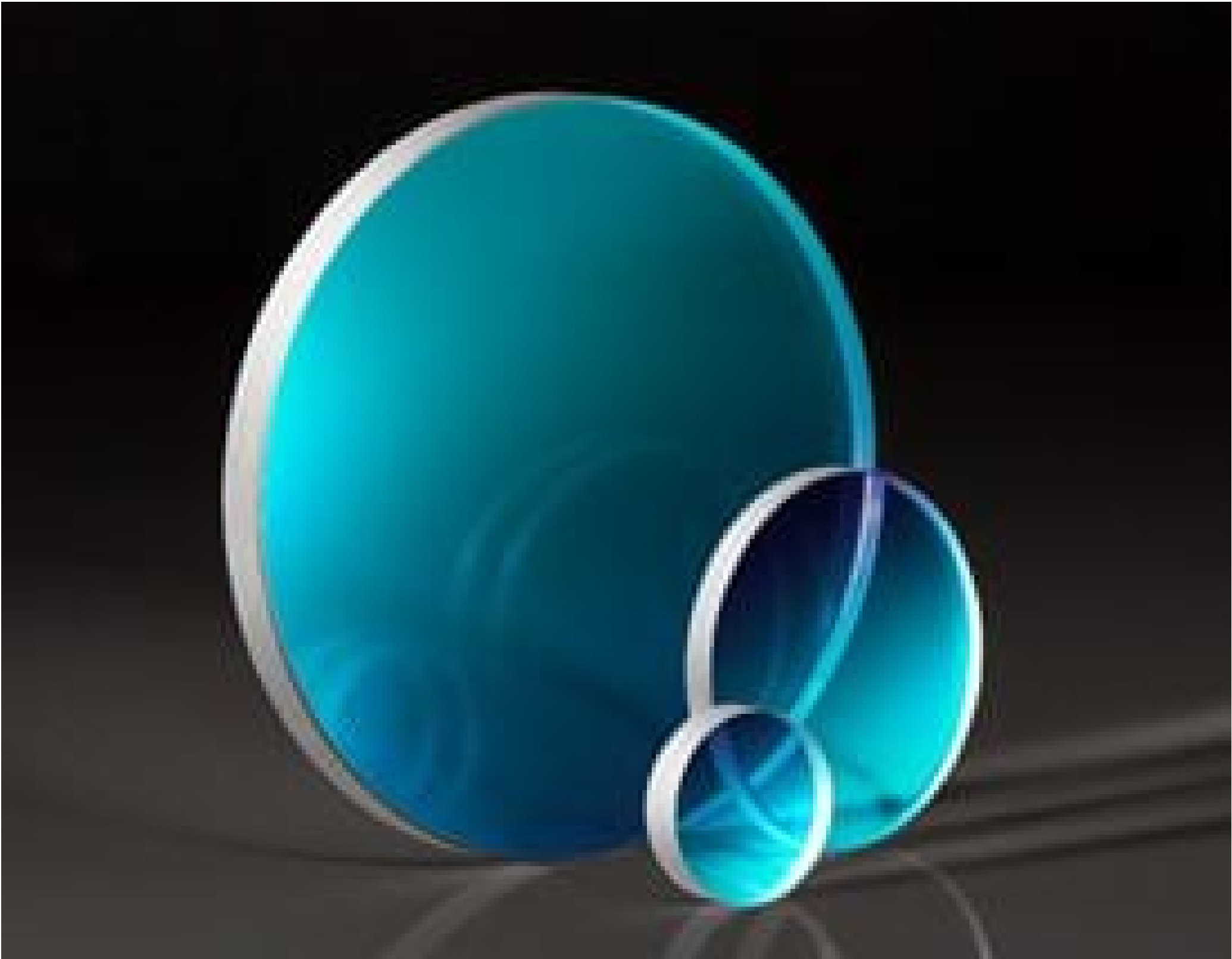


TECHSPEC<sup>®</sup> 25mm Dia., NIR I Coated, 30' Wedge, Fused Silica Wedged Window



TECHSPEC<sup>®</sup> Fused Silica Wedged Windows

Stock #25-619 12 In Stock

-

1

+

€172<sup>01</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €172,01 each                  |
| Qty 6-25       | €136,99 each                  |
| Qty 26-49      | €128,75 each                  |
| Need More?     | <a href="#">Request Quote</a> |

 Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Wedged Window

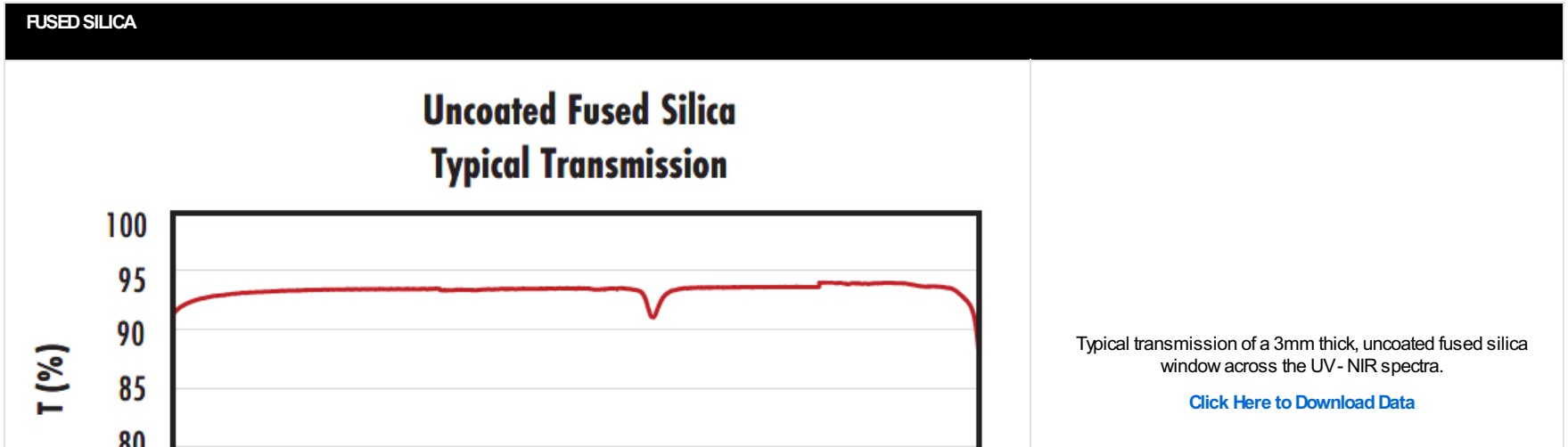
Type:

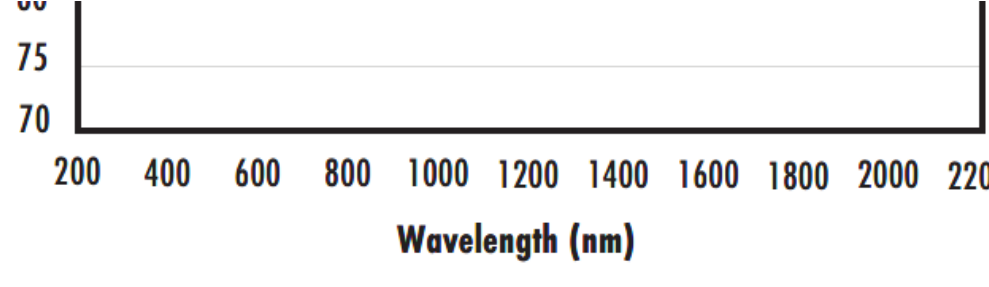
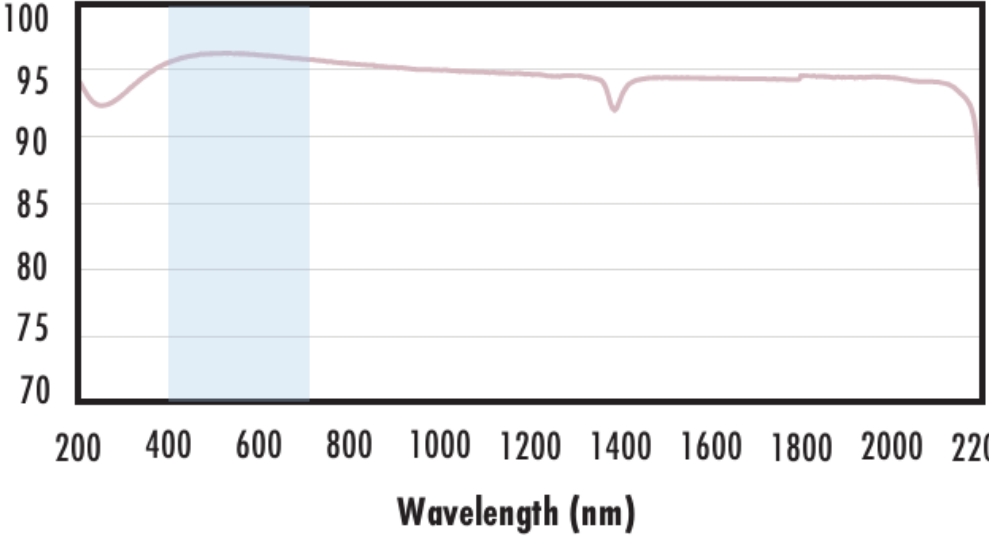
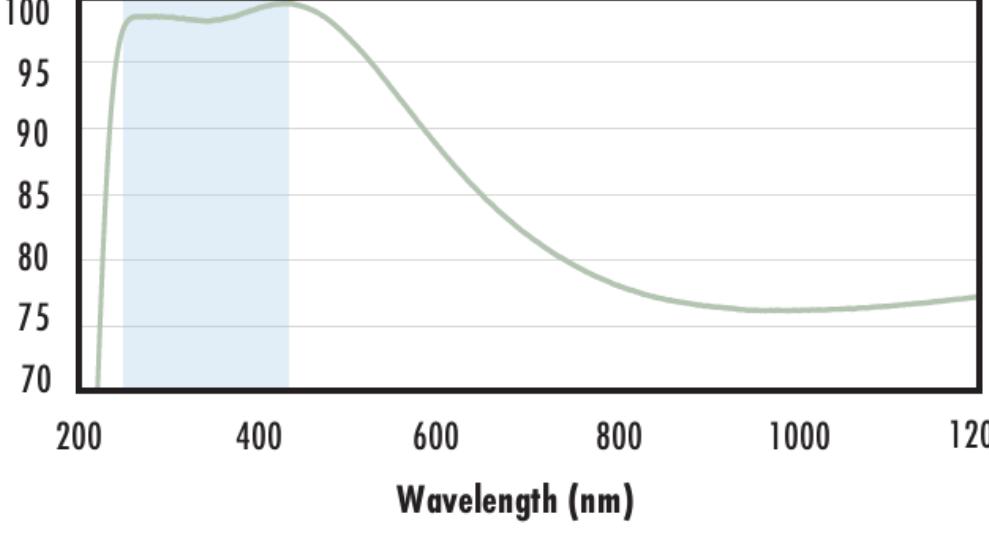
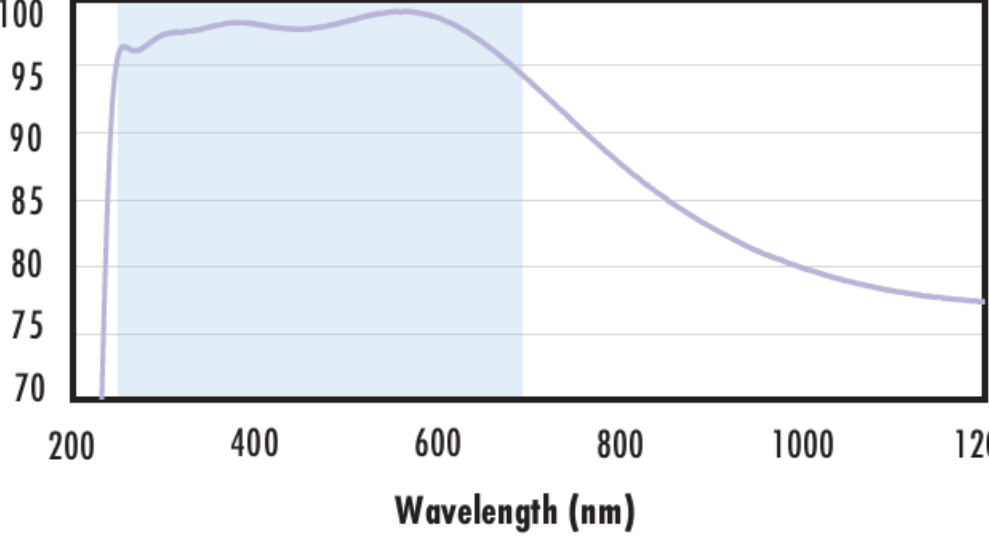
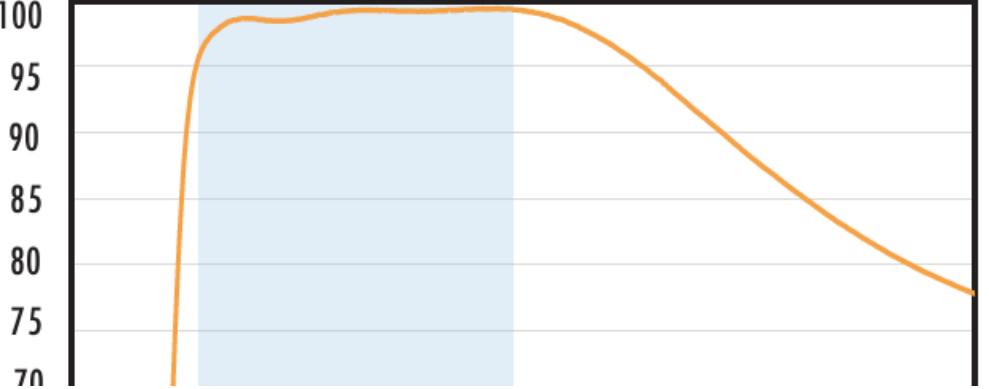
| Physical & Mechanical Properties                                                                                                  |                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 22.50                                                                                                                             | Clear Aperture CA (mm):                               |
| 25.00 +0.0/-0.10                                                                                                                  | Diameter (mm):                                        |
| 3.00 ±0.20                                                                                                                        | Thickness (mm):                                       |
| Fine Ground                                                                                                                       | Edges:                                                |
| 73                                                                                                                                | Young's Modulus (GPa):                                |
| 30' ±10'                                                                                                                          | Wedge Angle (arcmin):                                 |
| Optical Properties                                                                                                                |                                                       |
| NIR I (600-1050nm)                                                                                                                | Coating:                                              |
| Ravg ≤0.5% @ 600 - 1050nm                                                                                                         | Coating Specification:                                |
| 1.458                                                                                                                             | Index of Refraction (n <sub>d</sub> ):                |
| <a href="#">Fused Silica</a> (Corning 7980)                                                                                       | Substrate: <input type="checkbox"/>                   |
| λ/10                                                                                                                              | Surface Flatness (P-V):                               |
| 20-10                                                                                                                             | Surface Quality:                                      |
| 600 - 1050                                                                                                                        | Wavelength Range (nm):                                |
| 7 J/cm2 @ 1064nm, 10ns                                                                                                            | Damage Threshold, Reference: <input type="checkbox"/> |
| Material Properties                                                                                                               |                                                       |
| Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C):<br>0.52 (+5 to +35°C)<br>0.57 (0 to +200°C)<br>0.48 (-100 to +200°C) |                                                       |
| Regulatory Compliance                                                                                                             |                                                       |
| <a href="#">Compliant</a>                                                                                                         | RoHS 2015:                                            |
| <a href="#">View</a>                                                                                                              | Certificate of Conformance:                           |
| <a href="#">Compliant</a>                                                                                                         | Reach 235:                                            |

## PRODUCT DETAILS

- UV Fused Silica Substrates with a 30 Arcminute Wedge
  - λ/10 Surface Flatness and 20-10 Surface Quality
  - Prevent Laser Instability When Used in Laser Cavities
  - [N-BK7 Wedged Windows](#) and [Fused Silica Flat Windows](#) Also Available
- TECHSPEC® Fused Silica Wedged Windows are manufactured from UV grade fused silica and feature a 30 arcminute wedge. The wedge of these windows eliminates Etalon effects by preventing back surface reflections from traveling along the same optical path as the transmitted beam. This protects against laser instability, mode-hopping, and power spikes when used in laser cavities and beam interference effects when used externally. TECHSPEC® Fused Silica Wedged Windows are ideal for use in UV or high power laser applications due to their high UV transmittance and insensitivity to temperature variations. These windows can also be used as beam pick-off optics or beam samplers to monitor laser beam properties such as beam power over time.

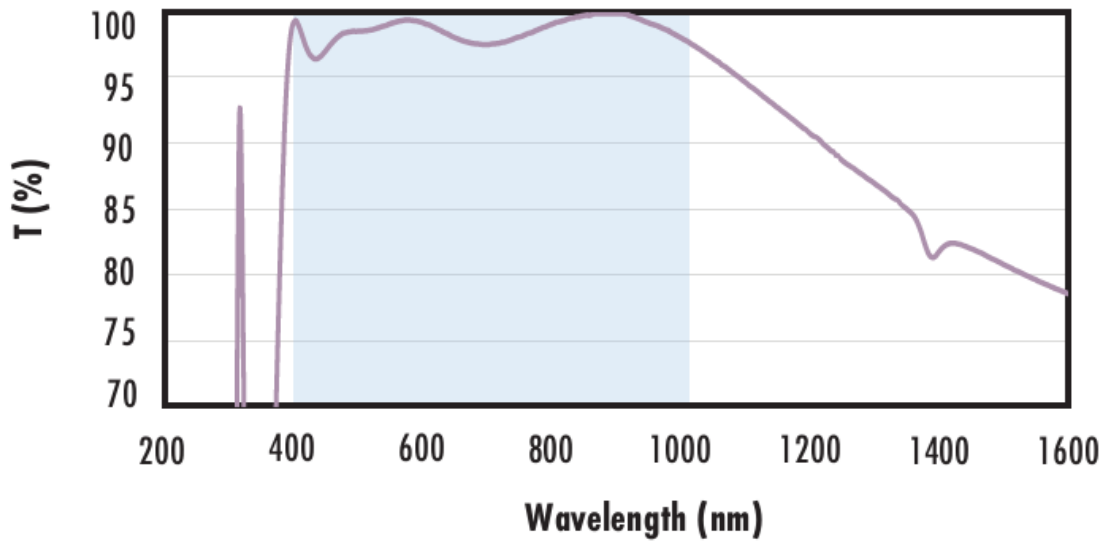
## TECHNICAL INFORMATION



|                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p data-bbox="594 365 1066 468"><b>Fused Silica with MgF<sub>2</sub> Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1346 546 1839 596">Typical transmission of a 3mm thick fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.</p> <p data-bbox="1335 608 1850 658">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1438 670 1747 697"><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</p> <p data-bbox="1346 709 1839 759">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 771 1709 795"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                 |
| <p data-bbox="583 1044 1077 1148"><b>Fused Silica with UV-AR Coating</b><br/><b>Typical Transmission</b></p>         | <p data-bbox="1346 1202 1839 1252">Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.</p> <p data-bbox="1335 1264 1850 1314">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1476 1326 1709 1353"><math>R_{abs} \leq 1.0\% @ 250 - 425\text{nm}</math></p> <p data-bbox="1476 1353 1709 1380"><math>R_{avg} \leq 0.75\% @ 250 - 425\text{nm}</math></p> <p data-bbox="1476 1380 1709 1406"><math>R_{avg} \leq 0.5\% @ 370 - 420\text{nm}</math></p> <p data-bbox="1346 1418 1839 1469">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 1481 1709 1504"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="573 1724 1087 1828"><b>Fused Silica with UV-VIS Coating</b><br/><b>Typical Transmission</b></p>        | <p data-bbox="1346 1881 1839 1932">Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</p> <p data-bbox="1335 1944 1850 1994">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1476 2006 1709 2033"><math>R_{abs} \leq 1.0\% @ 350 - 450\text{nm}</math></p> <p data-bbox="1476 2033 1709 2059"><math>R_{avg} \leq 1.5\% @ 250 - 700\text{nm}</math></p> <p data-bbox="1346 2101 1839 2151">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2163 1709 2187"><a href="#">Click Here to Download Data</a></p>                                                                                             |
| <p data-bbox="569 2404 1092 2507"><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1346 2585 1839 2635">Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1335 2647 1850 2697">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1476 2709 1709 2736"><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p data-bbox="1346 2748 1839 2798">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2810 1709 2834"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                        |



Fused Silica with VIS-NIR Coating  
Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.

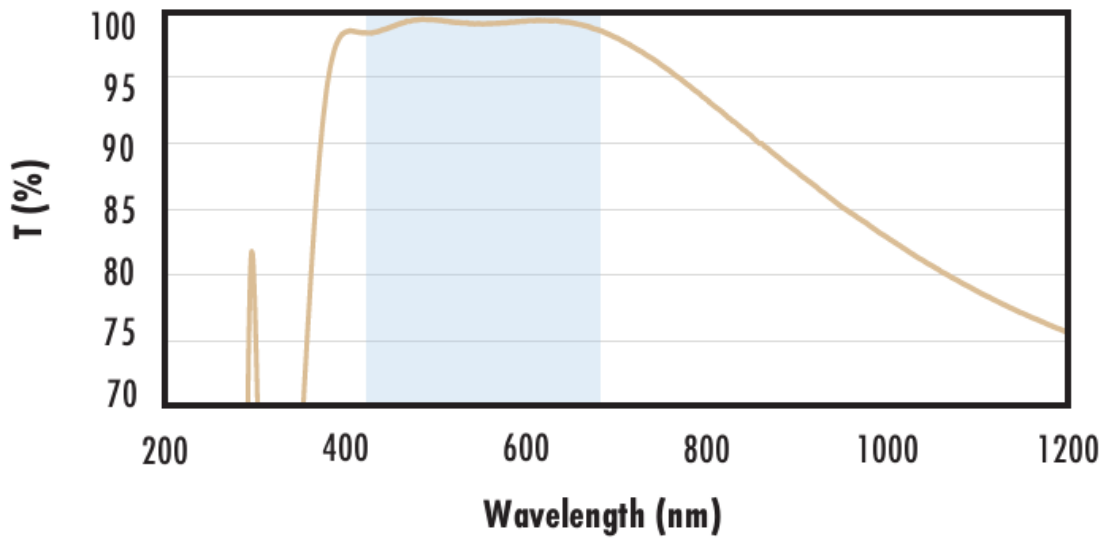
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$\begin{aligned} R_{\text{abs}} &\leq 0.25\% @ 880\text{nm} \\ R_{\text{avg}} &\leq 1.25\% @ 400 - 870\text{nm} \\ R_{\text{avg}} &\leq 1.25\% @ 890 - 1000\text{nm} \end{aligned}$$

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

[Click Here to Download Data](#)

Fused Silica with VIS 0° Coating  
Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

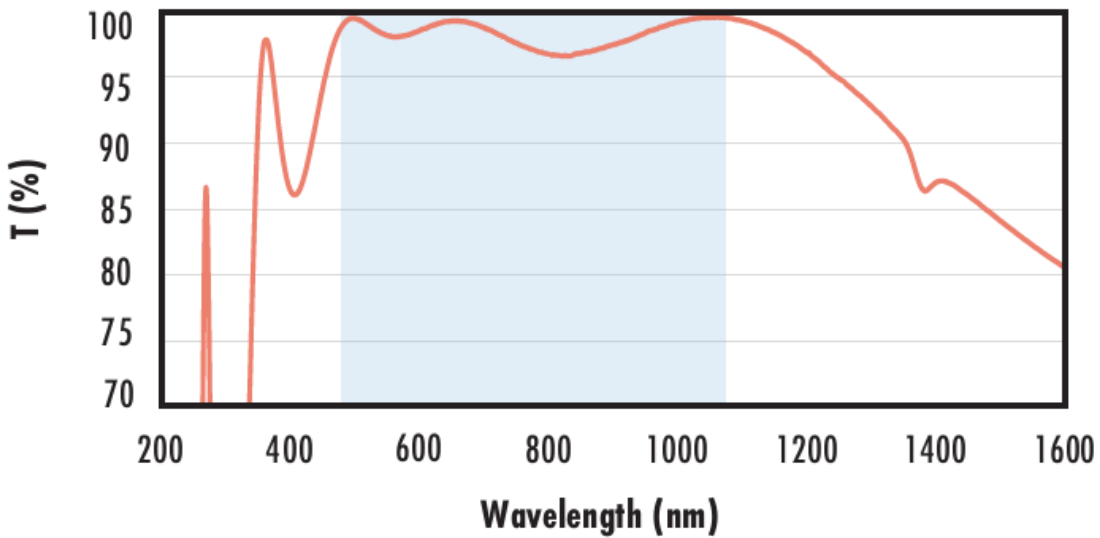
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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Fused Silica with YAG-BBAR Coating  
Typical Transmission



Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.

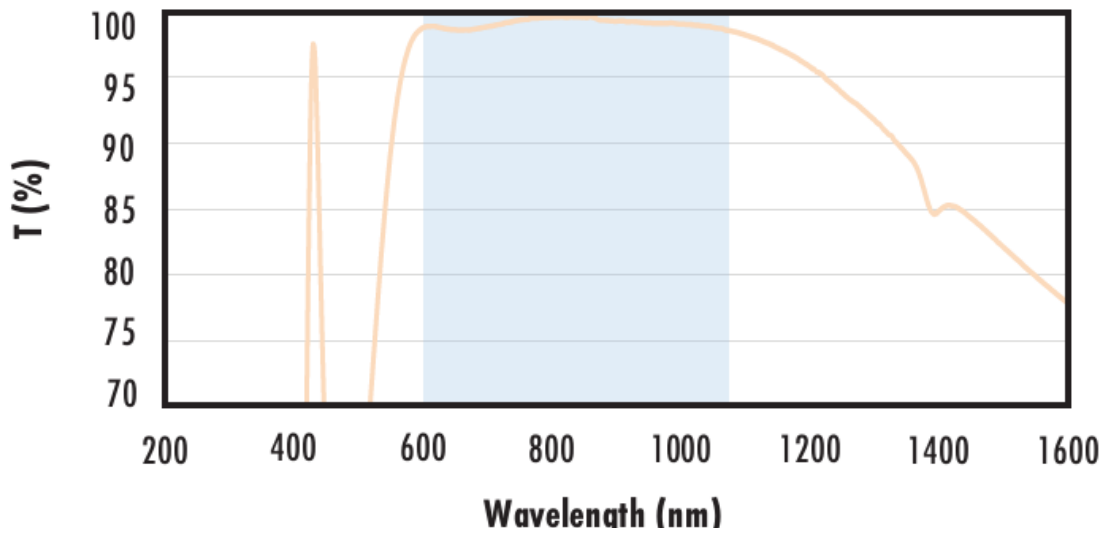
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$\begin{aligned} R_{\text{abs}} &\leq 0.25\% @ 532\text{nm} \\ R_{\text{abs}} &\leq 0.25\% @ 1064\text{nm} \\ R_{\text{avg}} &\leq 1.0\% @ 500 - 1100\text{nm} \end{aligned}$$

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

[Click Here to Download Data](#)

Fused Silica with NIR I Coating  
Typical Transmission



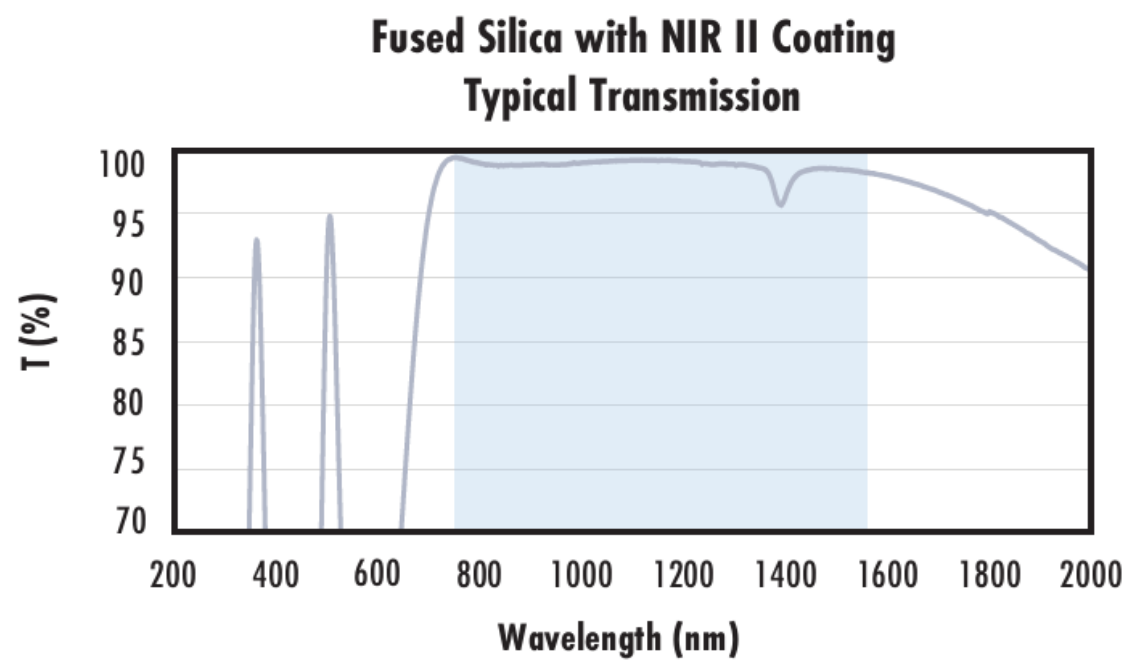
Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.

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

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

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 II (750 - 1550nm) coating at 0° AOI.

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

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

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

[Click Here to Download Data](#)

## 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](#).