

TECHSPEC® 25.4mm Dia., 3mm Thick, UV-AR Coated,  $\lambda$ /4 Fused Silica Window



TECHSPEC®  $\lambda$ /4 UVFused Silica Windows

Stock #72-377 1 In Stock

-

1

+

€157<sup>00</sup>

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| Volume Pricing |                               |
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| Qty 1-5        | €157,00 each                  |
| Qty 6-25       | €125,00 each                  |
| Qty 26-49      | €117,00 each                  |
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Product Downloads

General

Type:

Protective Window

Physical & Mechanical Properties

22.86

Clear Aperture CA (mm):

Diameter (mm):

|                      |                          |
|----------------------|--------------------------|
| 25.40 +0.00/-0.10    |                          |
| 3.00 ±0.10           | Thickness (mm):          |
| <1                   | Parallelism (arcmin):    |
| Protective as needed | Bevel:                   |
| 90                   | Clear Aperture (%):      |
| Fine Ground          | Edges:                   |
| 0.16                 | Poisson's Ratio:         |
| 73                   | Young's Modulus (GPa):   |
| 522.00               | Knoop Hardness (kg/mm²): |

Optical Properties

|                                                                                                                       |                                        |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| UV-AR (250-425nm)                                                                                                     | Coating:                               |
| Fused Silica (Corning 7980)                                                                                           | Substrate: <input type="checkbox"/>    |
| 1.458                                                                                                                 | Index of Refraction (n <sub>d</sub> ): |
| 40-20                                                                                                                 | Surface Quality:                       |
| λ/4                                                                                                                   | Transmitted Wavefront, P-V:            |
| 67.8                                                                                                                  | Abbe Number (v <sub>d</sub> ):         |
| R <sub>abs</sub> ≤1.0% @ 250 - 425nm<br>R <sub>avg</sub> ≤0.75% @ 250 - 425nm<br>R <sub>avg</sub> ≤0.5% @ 370 - 420nm | Coating Specification:                 |
| 250 - 450                                                                                                             | Wavelength Range (nm):                 |
| 3 J/cm² @ 355nm, 10ns                                                                                                 | Damage Threshold, Reference:           |

Material Properties

|                                                                   |                                                              |
|-------------------------------------------------------------------|--------------------------------------------------------------|
| 2.20                                                              | Density (g/cm³):                                             |
| 0.52 (+5 to +35°C)<br>0.57 (0 to +200°C)<br>0.48 (-100 to +200°C) | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |

Regulatory Compliance

|           |                             |
|-----------|-----------------------------|
| Compliant | RoHS 2015:                  |
| View      | Certificate of Conformance: |
| Compliant | REACH 241:                  |

Product Details

- Available Uncoated or BBAR Coated for UV, Visible, and NIR
- Ideal for Imaging Applications
- Circular and Rectangular Sizes from 5 to 200mm
- 1λ or λ/10 UV Fused Silica Windows Also Available

TECHSPEC® λ/4 UV Fused Silica Windows are manufactured with 40-20 surface quality and λ/4 transmitted wavefront error specifications, making them ideal for imaging applications. Featuring UV fused silica substrates, these windows provide high transmission from the ultraviolet (UV) through the visible and near-infrared (NIR). Broadband anti-reflection (BBAR) coating options are available to minimize reflection losses and increase transmission. TECHSPEC λ/4 UV Fused Silica Windows are used in optical imaging applications, in low to medium powered laser applications, and as protective windows, especially in applications requiring transmission of UV light.

Technical Information



| FUSED SILICA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <div><div>Uncoated Fused Silica<br/>Typical Transmission</div><div>Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.</div><div><a href="#">Click Here to Download Data</a></div></div>                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |
| <div><div>Fused Silica with MgF<sub>2</sub> Coating<br/>Typical Transmission</div><div>Typical transmission of a 3mm thick fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div><div><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm (N-BK7)}</math></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>                                                                                       |  |  |
| <div><div>Fused Silica with UV-AR Coating<br/>Typical Transmission</div><div>Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div><div><math>R_{abs} \leq 1.0\% @ 250 - 425\text{nm}</math><br/><math>R_{avg} \leq 0.75\% @ 250 - 425\text{nm}</math><br/><math>R_{avg} \leq 0.5\% @ 370 - 420\text{nm}</math></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> |  |  |

|                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <div data-bbox="573 296 1083 403">Fused Silica with UV-VIS Coating<br/>Typical Transmission</div>       | <p>Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 1.0\%</math> @ 350 - 450nm<br/><math>R_{avg} \leq 1.5\%</math> @ 250 - 700nm</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                   |
| <div data-bbox="567 979 1077 1086">Fused Silica with VIS-EXT Coating<br/>Typical Transmission</div>   | <p>Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.5\%</math> @ 350 - 700nm</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                    |
| <div data-bbox="573 1656 1083 1762">Fused Silica with VIS-NIR Coating<br/>Typical Transmission</div>  | <p>Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\%</math> @ 880nm<br/><math>R_{avg} \leq 1.25\%</math> @ 400 - 870nm<br/><math>R_{avg} \leq 1.25\%</math> @ 890 - 1000nm</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |
| <div data-bbox="573 2329 1083 2436">Fused Silica with VIS 0° Coating<br/>Typical Transmission</div>   | <p>Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.4\%</math> @ 425 - 675nm</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                     |

| <div><div>Wavelength (nm)</div><div><div>Fused Silica with YAG-BBAR Coating</div><div>Typical Transmission</div><div><table border="1"><caption>Approximate data for Fused Silica with YAG-BBAR Coating</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>250</td><td>87</td></tr><tr><td>300</td><td>70</td></tr><tr><td>350</td><td>99</td></tr><tr><td>400</td><td>86</td></tr><tr><td>450</td><td>95</td></tr><tr><td>500</td><td>100</td></tr><tr><td>600</td><td>99</td></tr><tr><td>700</td><td>100</td></tr><tr><td>800</td><td>98</td></tr><tr><td>900</td><td>99</td></tr><tr><td>1000</td><td>100</td></tr><tr><td>1100</td><td>100</td></tr><tr><td>1200</td><td>98</td></tr><tr><td>1300</td><td>95</td></tr><tr><td>1400</td><td>87</td></tr><tr><td>1500</td><td>82</td></tr><tr><td>1600</td><td>80</td></tr></tbody></table></div></div></div>                                                                                                                                                                       | Wavelength (nm)    | Transmission T (%) | 200 | 70 | 250 | 87 | 300 | 70 | 350 | 99 | 400 | 86 | 450 | 95 | 500 | 100 | 600 | 99  | 700 | 100 | 800 | 98  | 900  | 99  | 1000 | 100 | 1100 | 100 | 1200 | 98  | 1300 | 95  | 1400 | 87 | 1500 | 82  | 1600 | 80  | <div><p>Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><div><div><math>R_{\text{abs}} \leq 0.25\%</math> @ 532nm</div><div><math>R_{\text{abs}} \leq 0.25\%</math> @ 1064nm</div><div><math>R_{\text{avg}} \leq 1.0\%</math> @ 500 - 1100nm</div></div><p>Data outside this range is not guaranteed and is for reference only.</p><div><a href="#">Click Here to Download Data</a></div></div> |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|----|------|-----|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|----|------|----|------|----|------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Transmission T (%) |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 70                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 87                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 70                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 99                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 86                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 95                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100                |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 99                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100                |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 98                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 99                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 100                |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 100                |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 98                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 95                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 82                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 80                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <div><div>Wavelength (nm)</div><div><div>Fused Silica with NIR I Coating</div><div>Typical Transmission</div><div><table border="1"><caption>Approximate data for Fused Silica with NIR I Coating</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>300</td><td>70</td></tr><tr><td>400</td><td>70</td></tr><tr><td>450</td><td>99</td></tr><tr><td>500</td><td>70</td></tr><tr><td>550</td><td>95</td></tr><tr><td>600</td><td>100</td></tr><tr><td>700</td><td>100</td></tr><tr><td>800</td><td>100</td></tr><tr><td>900</td><td>100</td></tr><tr><td>1000</td><td>100</td></tr><tr><td>1050</td><td>100</td></tr><tr><td>1100</td><td>99</td></tr><tr><td>1200</td><td>95</td></tr><tr><td>1300</td><td>90</td></tr><tr><td>1400</td><td>85</td></tr><tr><td>1500</td><td>80</td></tr><tr><td>1600</td><td>78</td></tr></tbody></table></div></div></div>                                                                                                                                                                          | Wavelength (nm)    | Transmission T (%) | 200 | 70 | 300 | 70 | 400 | 70 | 450 | 99 | 500 | 70 | 550 | 95 | 600 | 100 | 700 | 100 | 800 | 100 | 900 | 100 | 1000 | 100 | 1050 | 100 | 1100 | 99  | 1200 | 95  | 1300 | 90  | 1400 | 85 | 1500 | 80  | 1600 | 78  | <div><p>Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><div><div><math>R_{\text{avg}} \leq 0.5\%</math> @ 600 - 1050nm</div></div><p>Data outside this range is not guaranteed and is for reference only.</p><div><a href="#">Click Here to Download Data</a></div></div>                                                                                                                       |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Transmission T (%) |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <div><div>Wavelength (nm)</div><div><div>Fused Silica with NIR II Coating</div><div>Typical Transmission</div><div><table border="1"><caption>Approximate data for Fused Silica with NIR II Coating</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>300</td><td>70</td></tr><tr><td>350</td><td>94</td></tr><tr><td>400</td><td>70</td></tr><tr><td>450</td><td>96</td></tr><tr><td>500</td><td>70</td></tr><tr><td>600</td><td>70</td></tr><tr><td>700</td><td>95</td></tr><tr><td>750</td><td>100</td></tr><tr><td>800</td><td>100</td></tr><tr><td>900</td><td>100</td></tr><tr><td>1000</td><td>100</td></tr><tr><td>1100</td><td>100</td></tr><tr><td>1200</td><td>100</td></tr><tr><td>1300</td><td>100</td></tr><tr><td>1400</td><td>97</td></tr><tr><td>1500</td><td>100</td></tr><tr><td>1550</td><td>100</td></tr><tr><td>1600</td><td>99</td></tr><tr><td>1700</td><td>97</td></tr><tr><td>1800</td><td>95</td></tr><tr><td>1900</td><td>92</td></tr><tr><td>2000</td><td>91</td></tr></tbody></table></div></div></div> | Wavelength (nm)    | Transmission T (%) | 200 | 70 | 300 | 70 | 350 | 94 | 400 | 70 | 450 | 96 | 500 | 70 | 600 | 70  | 700 | 95  | 750 | 100 | 800 | 100 | 900  | 100 | 1000 | 100 | 1100 | 100 | 1200 | 100 | 1300 | 100 | 1400 | 97 | 1500 | 100 | 1550 | 100 | 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 99 | 1700 | 97 | 1800 | 95 | 1900 | 92 | 2000 | 91 | <div><p>Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><div><div><math>R_{\text{abs}} \leq 1.5\%</math> @ 750 - 800nm</div><div><math>R_{\text{abs}} \leq 1.0\%</math> @ 800 - 1550nm</div><div><math>R_{\text{avg}} \leq 0.7\%</math> @ 750 - 1550nm</div></div><p>Data outside this range is not guaranteed and is for reference only.</p><div><a href="#">Click Here to Download Data</a></div></div> |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Transmission T (%) |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 1700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 97                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 95                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 92                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 91                 |                    |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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](#).