

TECHSPEC<sup>®</sup> 25mm Dia., 5mm Thick, VIS-NIR Coated,  $\lambda/4$  Fused Silica Window



TECHSPEC<sup>®</sup>  $\lambda/4$  UVFused Silica Windows

Stock **#72-376** **4 In Stock**

-

1

+

C\$224<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$224.00 each                |
| Qty 6-25       | C\$177.80 each                |
| Qty 26-49      | C\$166.60 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                         |
|----------------------------------|-------------------------|
| Protective Window                | Type:                   |
| Physical & Mechanical Properties |                         |
| 22.50                            | Clear Aperture CA (mm): |
| 25.00 +0.00/-0.10                | Diameter (mm):          |

|                      |                          |
|----------------------|--------------------------|
| 5.00 ±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

|                                                                                                                    |                                        |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| VIS-NIR (400-1000nm)                                                                                               | Coating:                               |
| <a href="#">Fused Silica</a> (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> ≤0.25% @ 880nm<br>R <sub>avg</sub> ≤1.25% @ 400 - 870nm<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm | Coating Specification:                 |
| 400 - 1000                                                                                                         | Wavelength Range (nm):                 |
| 5 J/cm² @ 532nm, 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

|                           |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | RoHS 2015:                  |
| <a href="#">View</a>      | Certificate of Conformance: |
| <a href="#">Compliant</a> | 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>Uncoated Fused Silica<br/>Typical Transmission</div> <p>Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| <div>Fused Silica with MgF<sub>2</sub> Coating<br/>Typical Transmission</div> <p>Typical transmission of a 3mm thick fused silica window with MgF<sub>2</sub> (400-700nm) 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 1.75\% @ 400 - 700\text{nm (N-BK7)}</math></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>Fused Silica with UV-AR Coating<br/>Typical Transmission</div> <p>Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) 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\% @ 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></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> |  |  |

|                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p data-bbox="573 296 1085 400"><b>Fused Silica with UV-VIS Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1329 460 1848 510">Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</p> <p data-bbox="1329 525 1848 572">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 587 1705 638"><math>R_{abs} \leq 1.0\% \text{ @ } 350 - 450\text{nm}</math><math>R_{avg} \leq 1.5\% \text{ @ } 250 - 700\text{nm}</math></div> <p data-bbox="1329 670 1848 718">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 733 1705 753"><a href="#">Click Here to Download Data</a></p>                                                                        |
| <p data-bbox="567 979 1079 1083"><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1329 1163 1848 1213">Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1329 1228 1848 1276">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 1291 1705 1311"><math>R_{avg} \leq 0.5\% \text{ @ } 350 - 700\text{nm}</math></div> <p data-bbox="1329 1326 1848 1374">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 1389 1705 1409"><a href="#">Click Here to Download Data</a></p>                                                                                                                          |
| <p data-bbox="573 1656 1085 1760"><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1329 1801 1848 1852">Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1329 1866 1848 1914">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1465 1929 1715 2000"><math>R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}</math><math>R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}</math><math>R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}</math></div> <p data-bbox="1329 2033 1848 2080">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2095 1705 2116"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="567 2329 1079 2433"><b>Fused Silica with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1329 2507 1848 2555">Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1329 2570 1848 2617">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 2632 1705 2653"><math>R_{avg} \leq 0.4\% \text{ @ } 425 - 675\text{nm}</math></div> <p data-bbox="1329 2668 1848 2715">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2730 1705 2751"><a href="#">Click Here to Download Data</a></p>                                                                                                                           |



