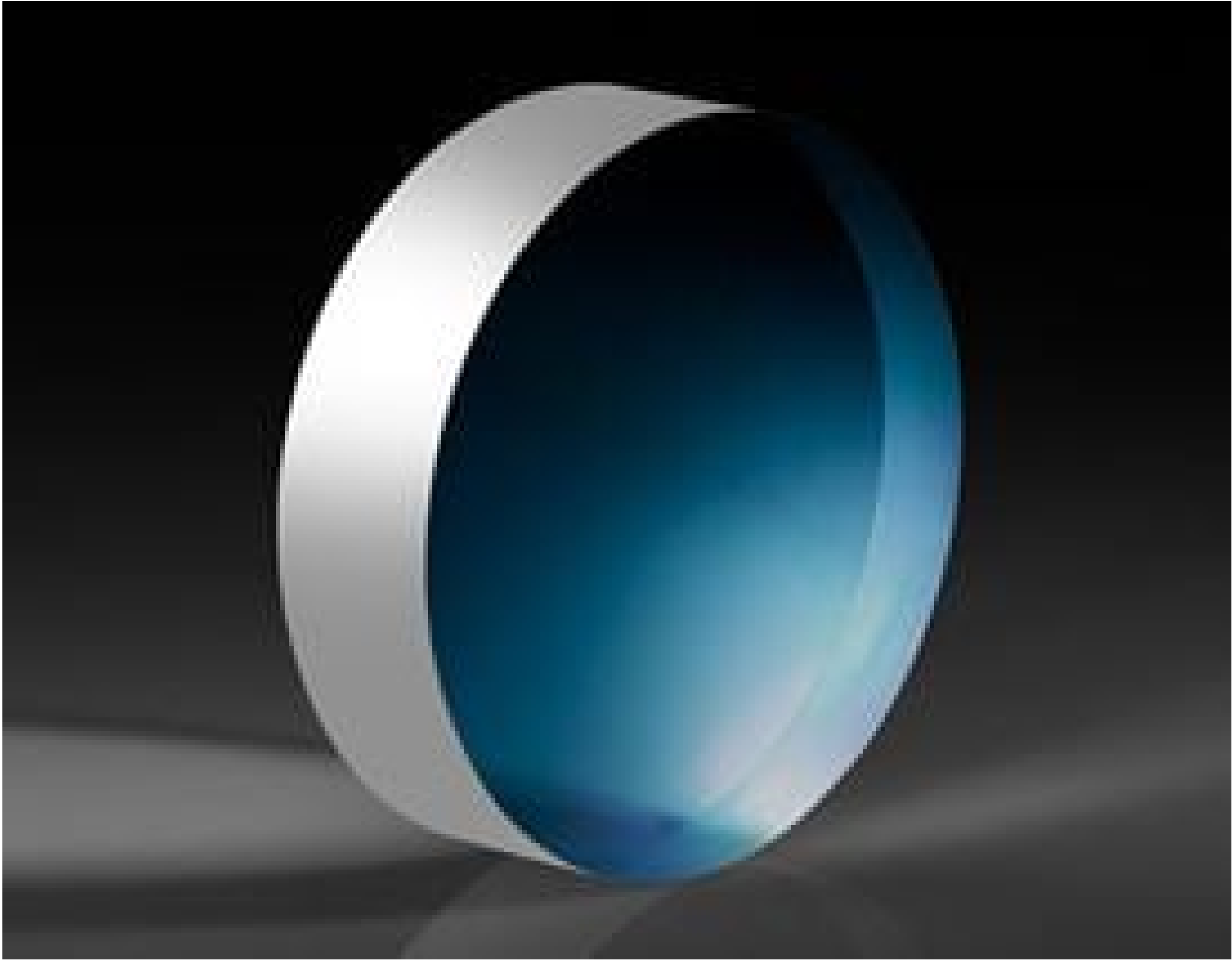


TECHSPEC[®] 40mm Dia. 4mm Thick VIS 0°, 1λ Fused Silica Window



Stock **#36-984** 12 In Stock

-

1

+

₹8,875

ADD TO CART

Volume Pricing	
Qty 1-5	₹8,875 each
Qty 6-25	₹7,078 each
Qty 26-49	₹6,638 each
Need More?	Request Quote

Product Downloads

General

Protective WindowType:

Physical & Mechanical Properties

36.00Clear Aperture CA (mm):

40.00 +0.00/-0.20Diameter (mm):

4.00 ±0.38	Thickness (mm):
<5	Parallelism (arcmin):
+0.00/-0.20	Dimensional Tolerance (mm):
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

VS 0° (425-675nm)	Coating:
Fused Silica (Corning 7980)	Substrate: ☐
1.458	Index of Refraction (n _d):
60-40	Surface Quality:
67.8	Abbe Number (v _d):
R _{avg} ≤0.4% @ 425 - 675nm	Coating Specification:
425 - 675	Wavelength Range (nm):
1λ	Surface Flatness (P-V):
5 J/cm² @ 532nm, 10ns	Damage Threshold, Reference: ☐

Material Properties

2.20	Density (g/cm³):
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
7980 0G	Fused Silica Grade:

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

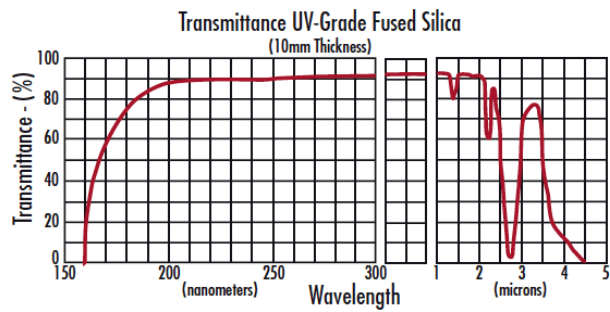
Product Details

- Available Uncoated or with Broadband Anti-Reflection Coatings
- Ideal for Cost Sensitive Broadband Applications
- Circular and Square Sizes from 5mm to 100mm
- $\lambda/4$ or $\lambda/10$ UV Fused Silica Windows Also Available

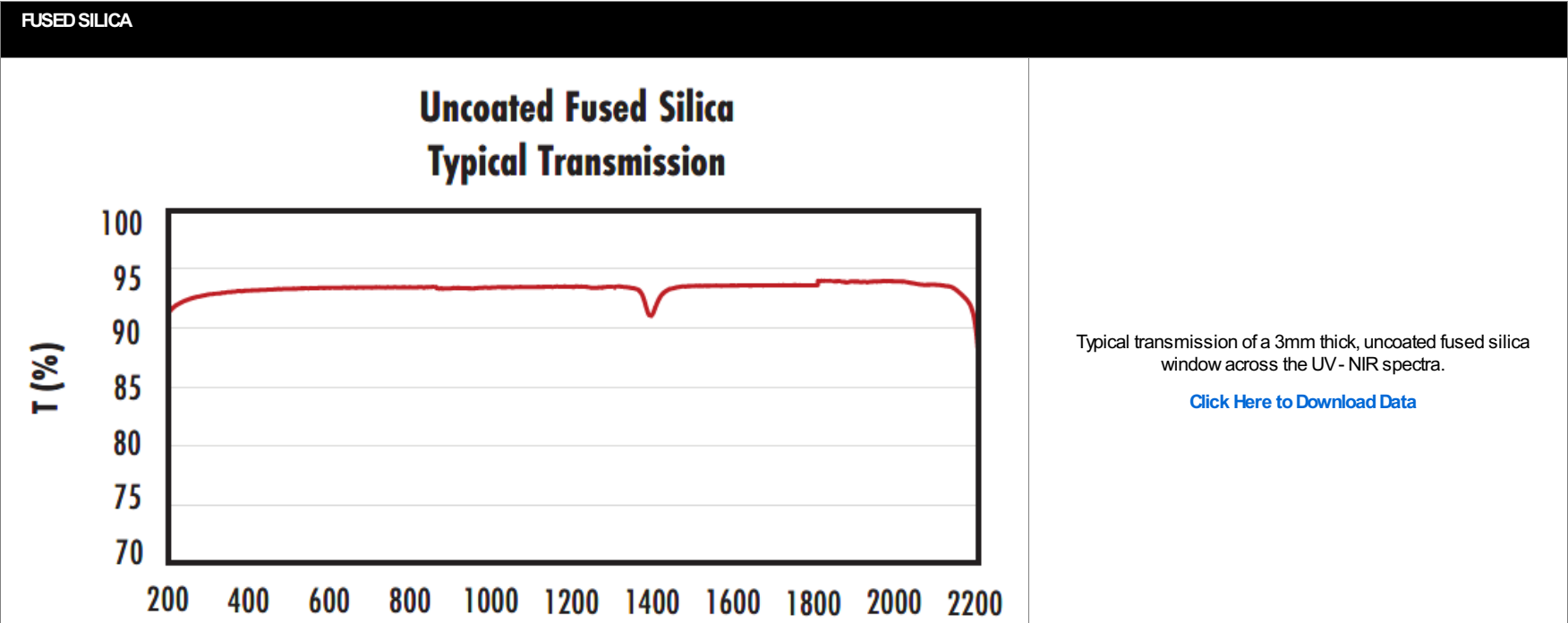
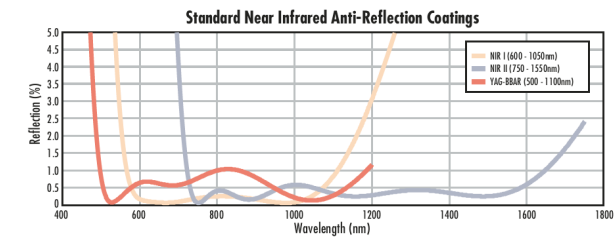
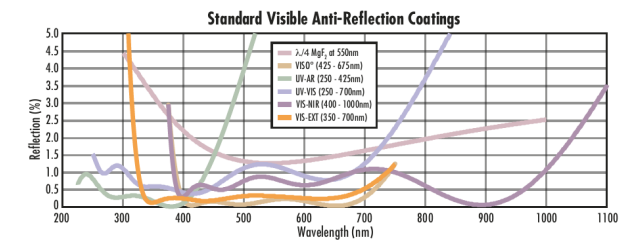
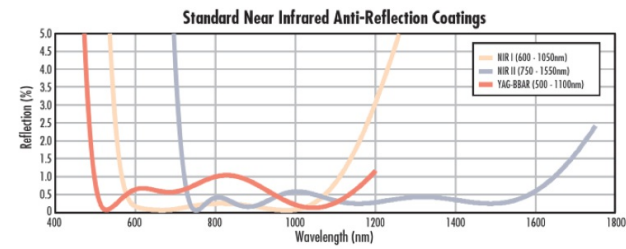
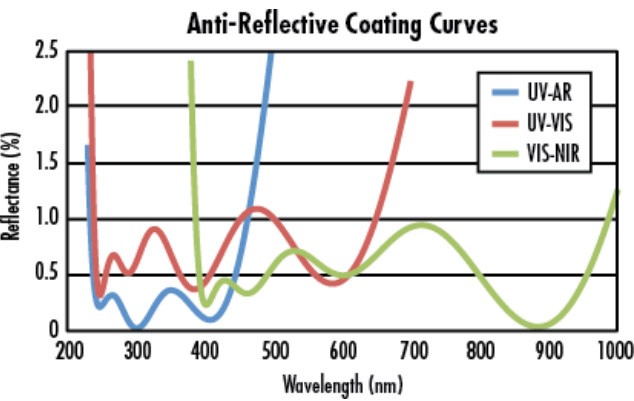
TECHSPEC® 1λ UV Fused Silica Windows are precision manufactured using UV-grade synthetic fused silica. In addition to superior transmission, the synthetic fused silica of these optical windows exhibits higher thermal properties, exceptional purity, and excellent environmental durability for demanding applications. The windows are ideal for cost-sensitive broadband applications and are available uncoated or with broadband anti-reflection coatings. TECHSPEC® 1λ UV Fused Silica Windows have circular and square sizes ranging from 5mm to 100mm. $\lambda/4$ or $\lambda/10$ UV Fused Silica Windows are also available.

Note: New additions to this product family may be specified with a transmitted wavefront distortion (TWD) specification instead of a surface flatness. For more information on the difference between these two specifications, see our application note on [Understanding Optical Windows](#).

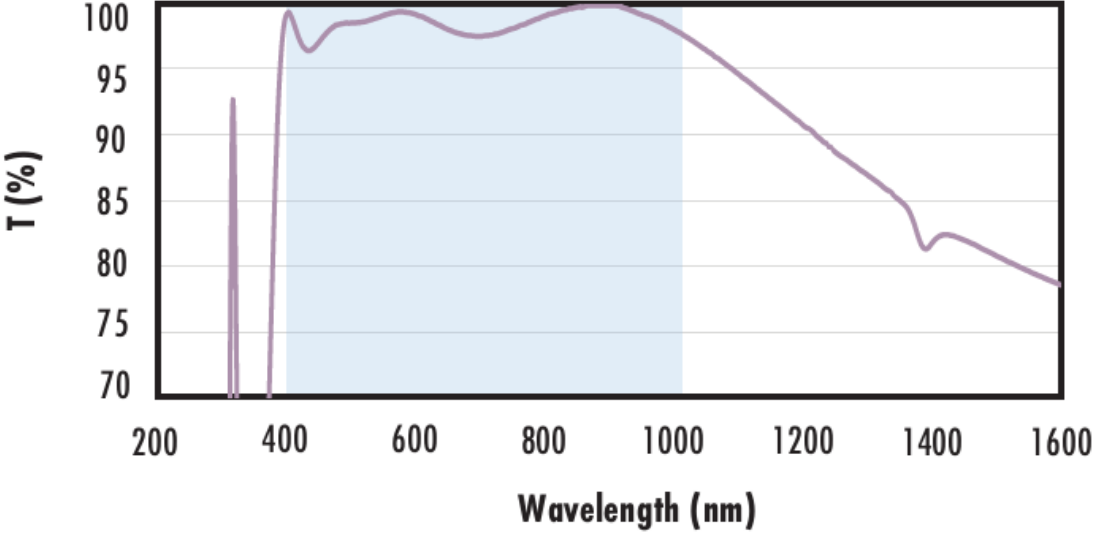
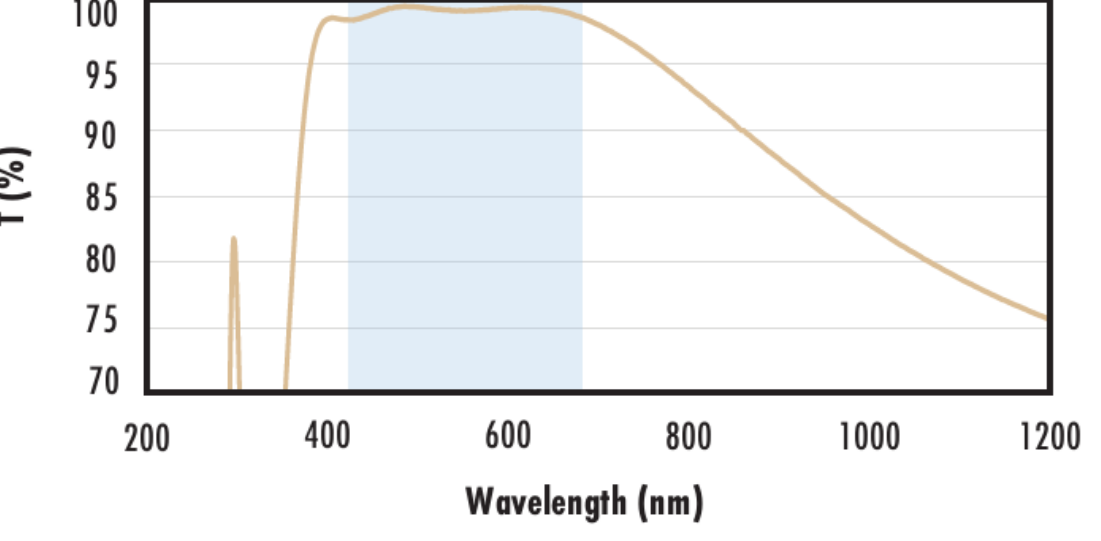
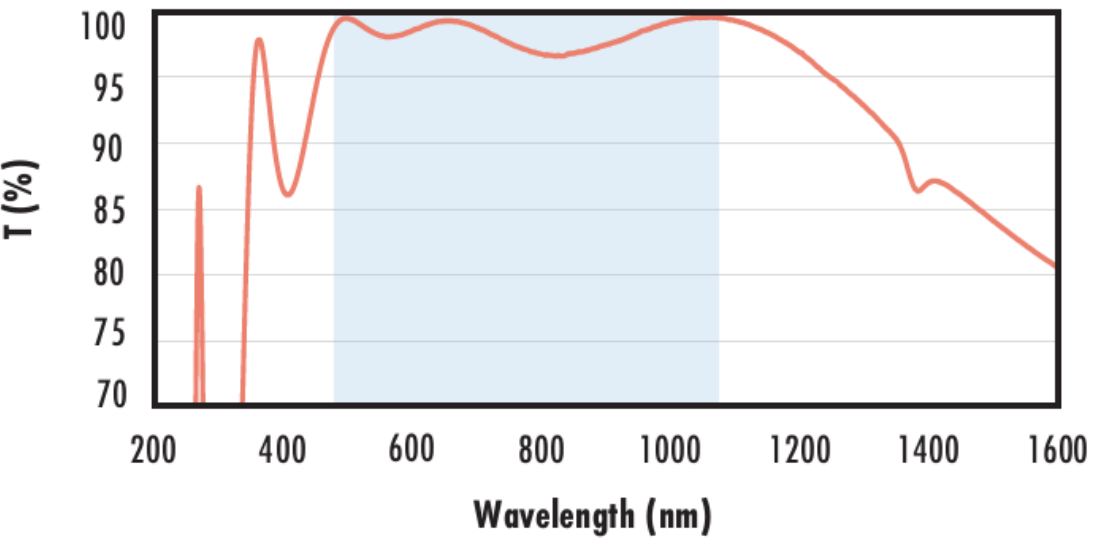
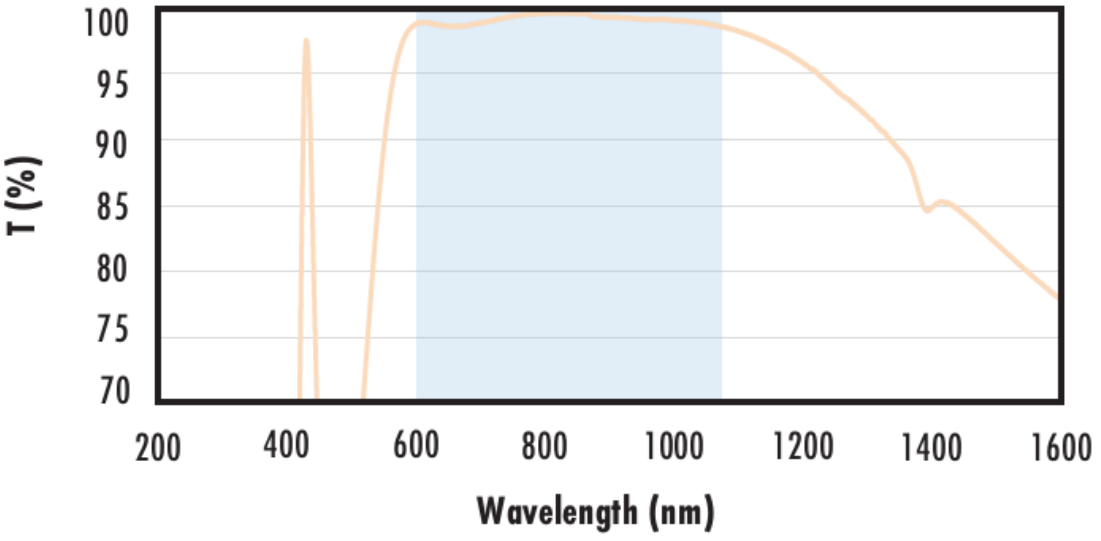
Technical Information

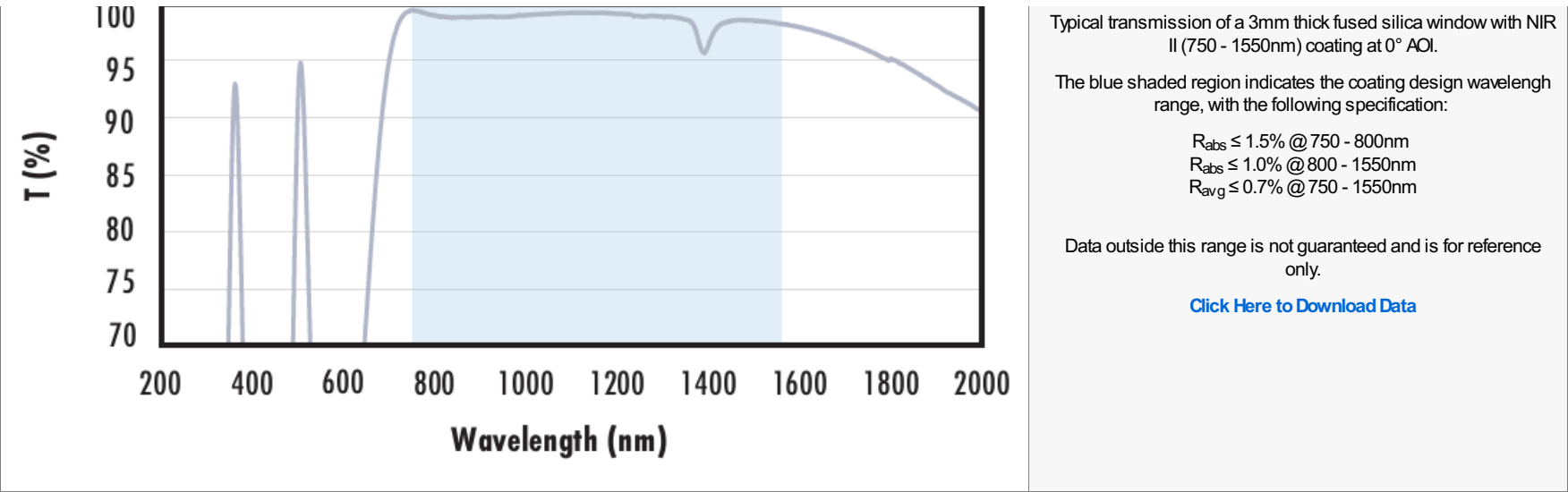


UV FS Transmission Curve



Wavelength (nm)																																													
Fused Silica with MgF₂ Coating Typical Transmission This graph shows the typical transmission spectrum for fused silica with a magnesium fluoride (MgF₂) coating. The x-axis represents wavelength in nanometers (nm) from 200 to 2200, and the y-axis represents transmittance T (%) from 70 to 100. A blue shaded region indicates the design wavelength range from approximately 380 nm to 720 nm. Outside this range, the transmittance drops significantly at shorter wavelengths and around 1400 nm. <table border="1"><thead><tr><th>Wavelength (nm)</th><th>T (%)</th></tr></thead><tbody><tr><td>200</td><td>94</td></tr><tr><td>300</td><td>96</td></tr><tr><td>400</td><td>97</td></tr><tr><td>500</td><td>97</td></tr><tr><td>600</td><td>96</td></tr><tr><td>700</td><td>96</td></tr><tr><td>800</td><td>95</td></tr><tr><td>900</td><td>95</td></tr><tr><td>1000</td><td>95</td></tr><tr><td>1100</td><td>95</td></tr><tr><td>1200</td><td>95</td></tr><tr><td>1300</td><td>94</td></tr><tr><td>1400</td><td>93</td></tr><tr><td>1500</td><td>95</td></tr><tr><td>1600</td><td>95</td></tr><tr><td>1700</td><td>95</td></tr><tr><td>1800</td><td>95</td></tr><tr><td>1900</td><td>95</td></tr><tr><td>2000</td><td>95</td></tr><tr><td>2100</td><td>94</td></tr><tr><td>2200</td><td>85</td></tr></tbody></table>	Wavelength (nm)	T (%)	200	94	300	96	400	97	500	97	600	96	700	96	800	95	900	95	1000	95	1100	95	1200	95	1300	94	1400	93	1500	95	1600	95	1700	95	1800	95	1900	95	2000	95	2100	94	2200	85	Typical transmission of a 3mm thick fused silica window with MgF₂ (400-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: R_{avg} ≤ 1.75% @ 400 - 700nm (N-BK7) Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
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Fused Silica with UV-AR Coating Typical Transmission This graph shows the typical transmission spectrum for fused silica with a UV anti-reflection (UV-AR) coating. The x-axis ranges from 200 to 1200 nm, and the y-axis ranges from 70 to 100%. The blue shaded design range is from 250 nm to 425 nm. Transmittance is near 100% in this range and begins to decline after 450 nm. <table border="1"><thead><tr><th>Wavelength (nm)</th><th>T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>250</td><td>98</td></tr><tr><td>300</td><td>99</td></tr><tr><td>350</td><td>99</td></tr><tr><td>400</td><td>100</td></tr><tr><td>425</td><td>100</td></tr><tr><td>450</td><td>99</td></tr><tr><td>500</td><td>95</td></tr><tr><td>600</td><td>85</td></tr><tr><td>700</td><td>75</td></tr><tr><td>800</td><td>72</td></tr><tr><td>900</td><td>71</td></tr><tr><td>1000</td><td>71</td></tr><tr><td>1100</td><td>72</td></tr><tr><td>1200</td><td>73</td></tr></tbody></table>	Wavelength (nm)	T (%)	200	70	250	98	300	99	350	99	400	100	425	100	450	99	500	95	600	85	700	75	800	72	900	71	1000	71	1100	72	1200	73	Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: R_{abs} ≤ 1.0% @ 250 - 425nm R_{avg} ≤ 0.75% @ 250 - 425nm R_{avg} ≤ 0.5% @ 370 - 420nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data												
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Fused Silica with UV-VIS Coating Typical Transmission This graph shows the typical transmission spectrum for fused silica with a UV-visible (UV-VIS) coating. The x-axis ranges from 200 to 1200 nm, and the y-axis ranges from 70 to 100%. The blue shaded design range is from 250 nm to 700 nm. Transmittance remains above 95% across this entire range. <table border="1"><thead><tr><th>Wavelength (nm)</th><th>T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>250</td><td>97</td></tr><tr><td>300</td><td>98</td></tr><tr><td>350</td><td>98</td></tr><tr><td>400</td><td>99</td></tr><tr><td>450</td><td>98</td></tr><tr><td>500</td><td>99</td></tr><tr><td>550</td><td>100</td></tr><tr><td>600</td><td>100</td></tr><tr><td>650</td><td>95</td></tr><tr><td>700</td><td>90</td></tr><tr><td>800</td><td>80</td></tr><tr><td>900</td><td>75</td></tr><tr><td>1000</td><td>72</td></tr><tr><td>1100</td><td>71</td></tr><tr><td>1200</td><td>70</td></tr></tbody></table>	Wavelength (nm)	T (%)	200	70	250	97	300	98	350	98	400	99	450	98	500	99	550	100	600	100	650	95	700	90	800	80	900	75	1000	72	1100	71	1200	70	Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: R_{abs} ≤ 1.0% @ 350 - 450nm R_{avg} ≤ 1.5% @ 250 - 700nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data										
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Fused Silica with VIS-EXT Coating Typical Transmission This graph shows the typical transmission spectrum for fused silica with a visible-to-exterior (VIS-EXT) coating. The x-axis ranges from 200 to 1200 nm, and the y-axis ranges from 70 to 100%. The blue shaded design range is from 350 nm to 700 nm. Transmittance is near 100% in this range and starts to drop after 750 nm. <table border="1"><thead><tr><th>Wavelength (nm)</th><th>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>95</td></tr><tr><td>400</td><td>99</td></tr><tr><td>450</td><td>99</td></tr><tr><td>500</td><td>100</td></tr><tr><td>550</td><td>100</td></tr><tr><td>600</td><td>100</td></tr><tr><td>650</td><td>100</td></tr><tr><td>700</td><td>100</td></tr><tr><td>750</td><td>98</td></tr><tr><td>800</td><td>95</td></tr><tr><td>900</td><td>85</td></tr><tr><td>1000</td><td>78</td></tr><tr><td>1100</td><td>75</td></tr><tr><td>1200</td><td>72</td></tr></tbody></table>	Wavelength (nm)	T (%)	200	70	300	70	350	95	400	99	450	99	500	100	550	100	600	100	650	100	700	100	750	98	800	95	900	85	1000	78	1100	75	1200	72	Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: R_{avg} ≤ 0.5% @ 350 - 700nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data										
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Fused Silica with VIS-NIR Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}$$R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}$$R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS 0° Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 0.4\% \text{ @ } 425 - 675\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with YAG-BBAR Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 0.25\% \text{ @ } 532\text{nm}$$R_{abs} \leq 0.25\% \text{ @ } 1064\text{nm}$$R_{avg} \leq 1.0\% \text{ @ } 500 - 1100\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with NIR I Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 0.5\% \text{ @ } 600 - 1050\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with NIR II Coating Typical Transmission	



Coating Curves

Compatible Mounts