

TECHSPEC[®] 15mm Dia. 1mm Thick VIS 0°, 1λ Fused Silica Window



Stock **#23-311** 4 In Stock

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1

+

£84^{.00}

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Volume Pricing	
Qty 1-5	£84.00 each
Qty 6-25	£67.20 each
Qty 26-49	£62.80 each
Need More?	Request Quote

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 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):
13.50

Diameter (mm):
15.00 +0.00/-0.20

1.00 ±0.38	Thickness (mm):
<5	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 0° (425-675nm)	Coating:
Fused Silica (Corning 7980)	Substrate: ☐
1.458	Index of Refraction (n _d):
60-40	Surface Quality:
1λ	Transmitted Wavefront, P-V:
67.8	Abbe Number (v _d):
R _{avg} ≤0.4% @ 425 - 675nm	Coating Specification:
425 - 675	Wavelength Range (nm):
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:

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
- [λ/4](#) or [λ/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.

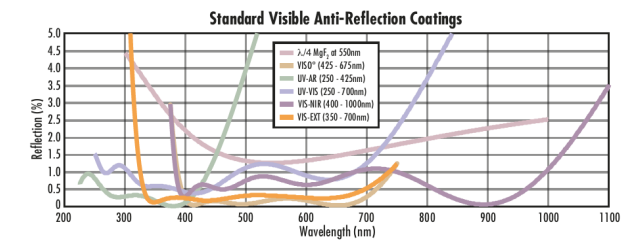
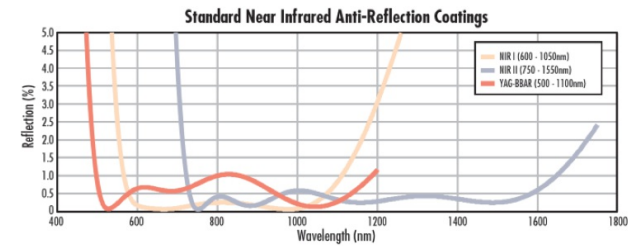
TECHSPEC® 1λ UV Fused Silica Windows have circular and square sizes ranging from 5mm to 100mm. [λ/4](#) or [λ/10](#) UV Fused Silica Windows are also available.

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

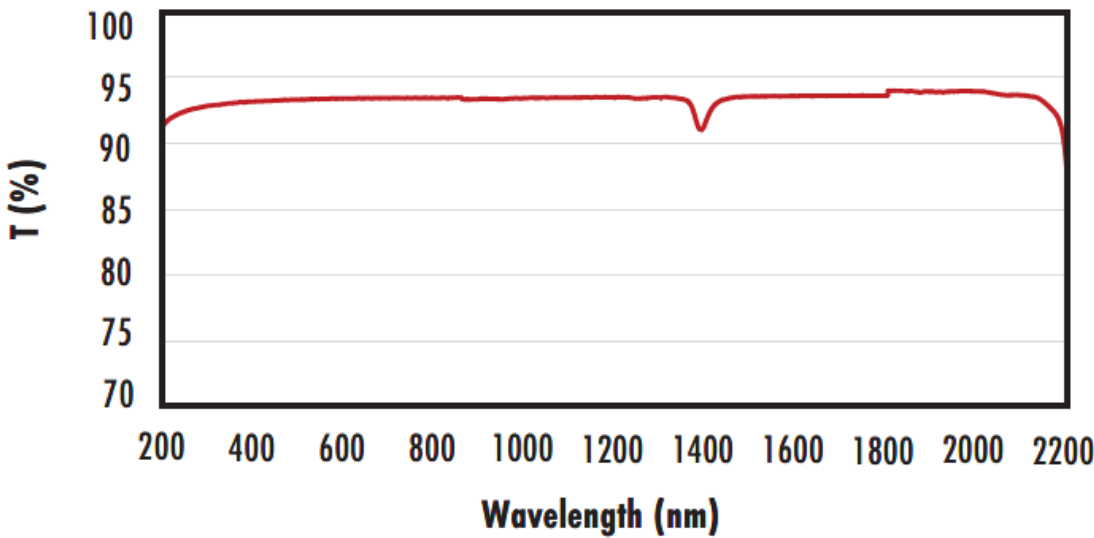


UV FS Transmission Curve



FUSED SILICA

Uncoated Fused Silica
Typical Transmission

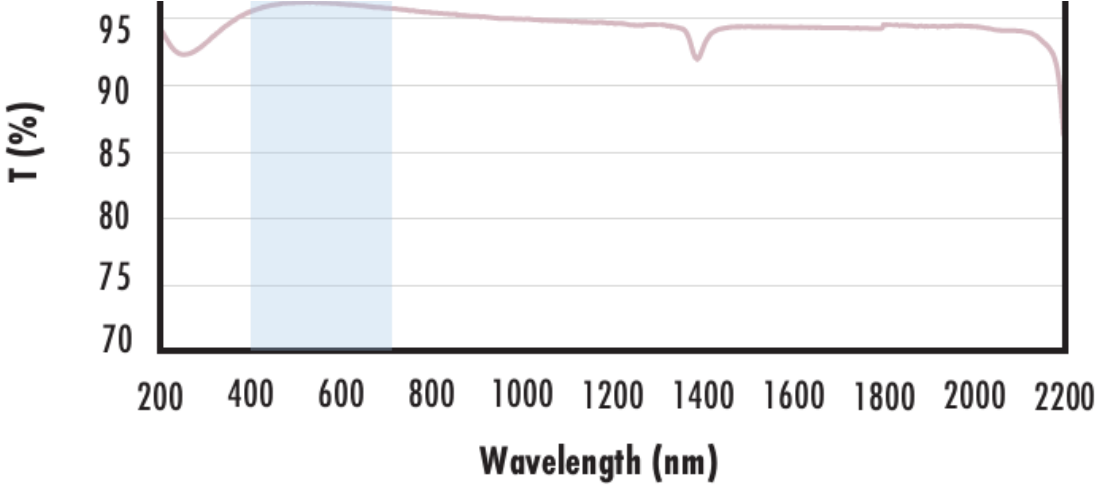
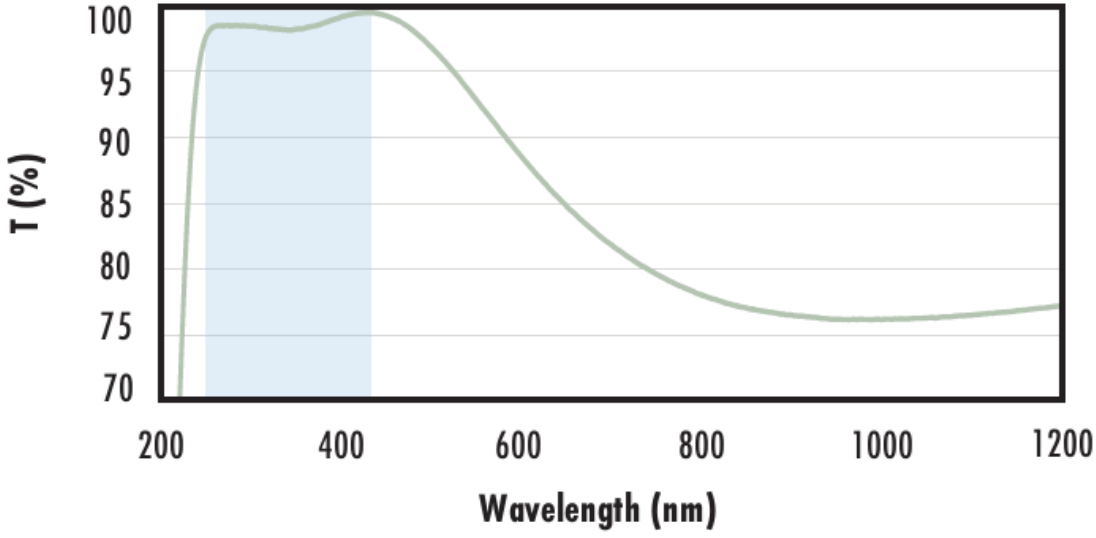
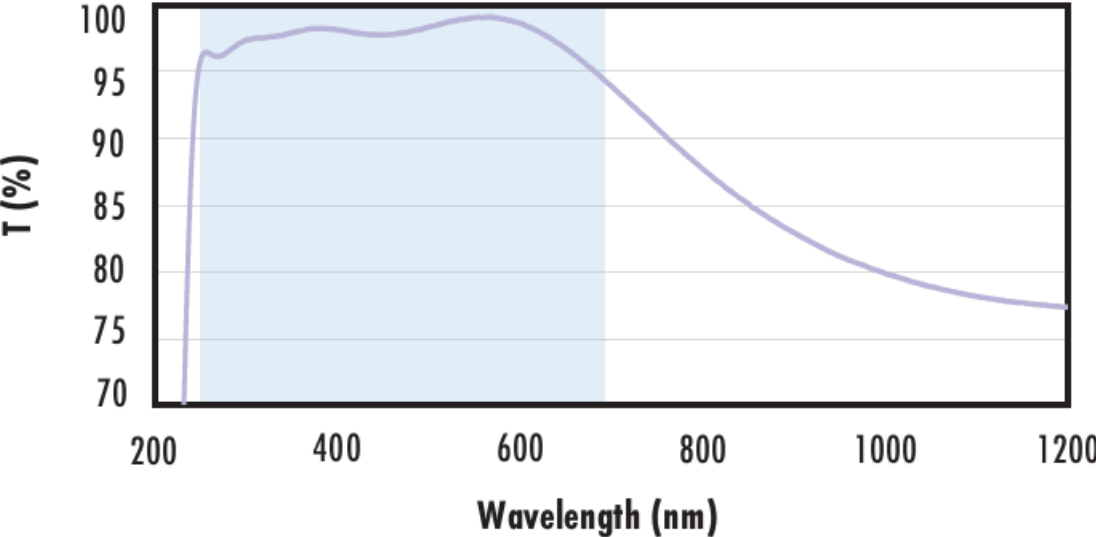
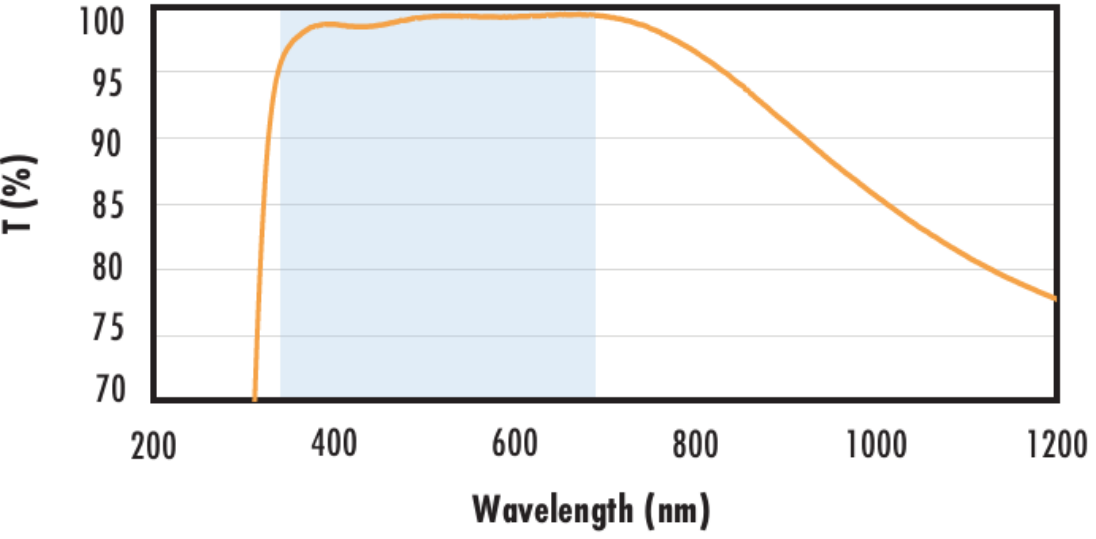
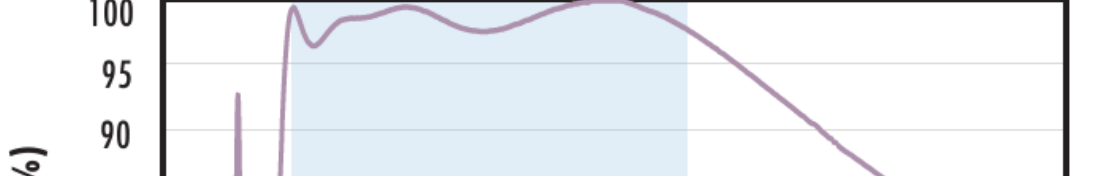


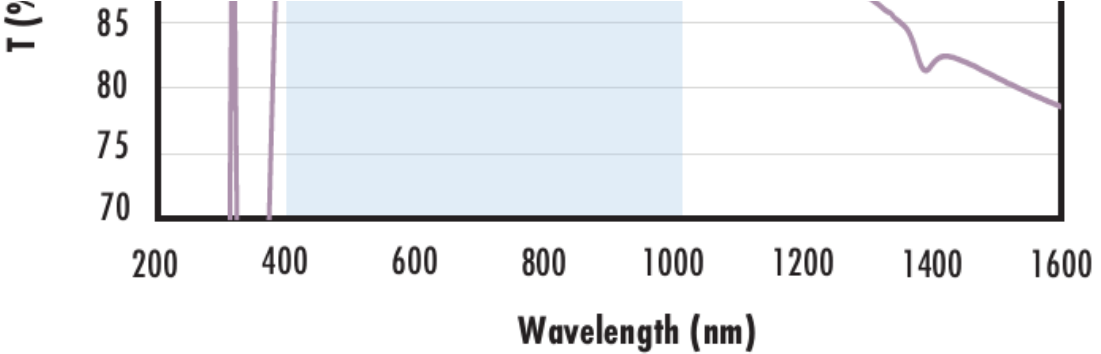
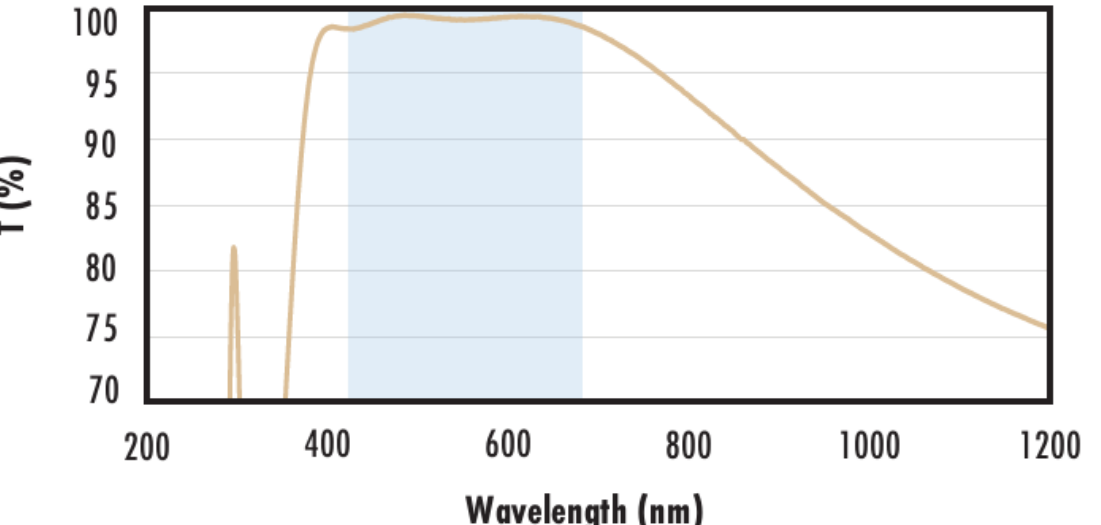
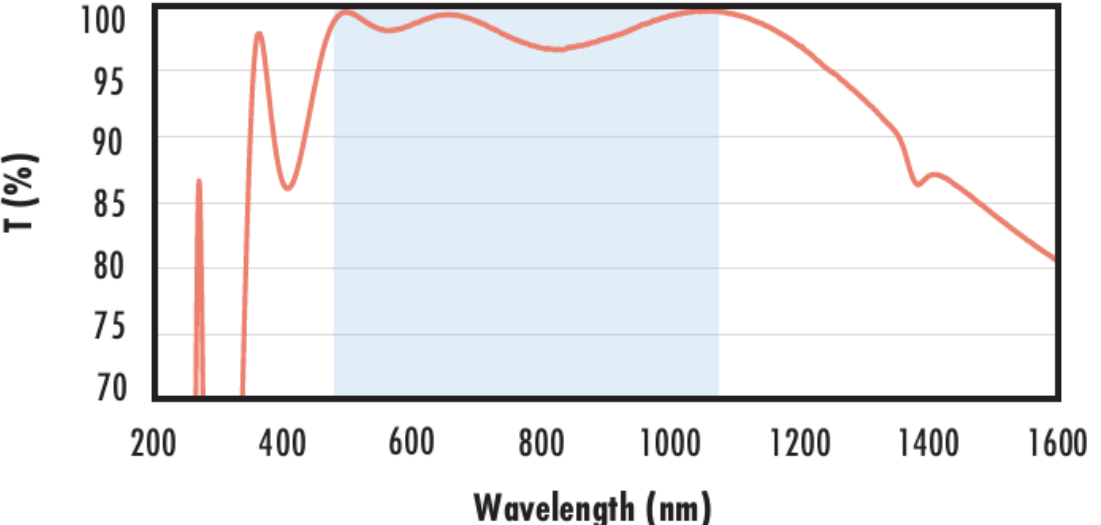
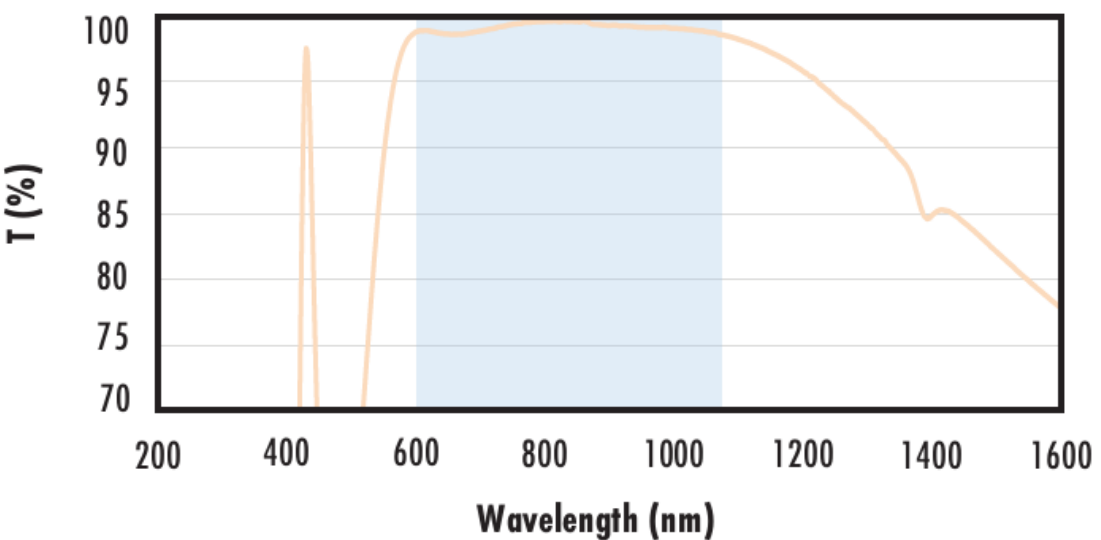
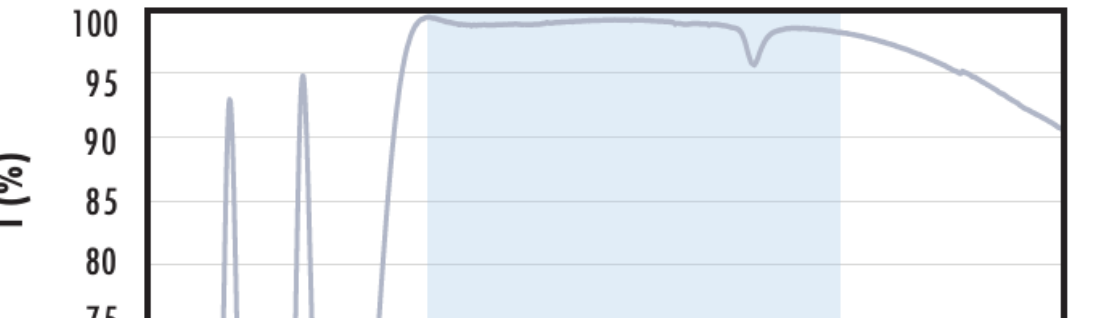
Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.

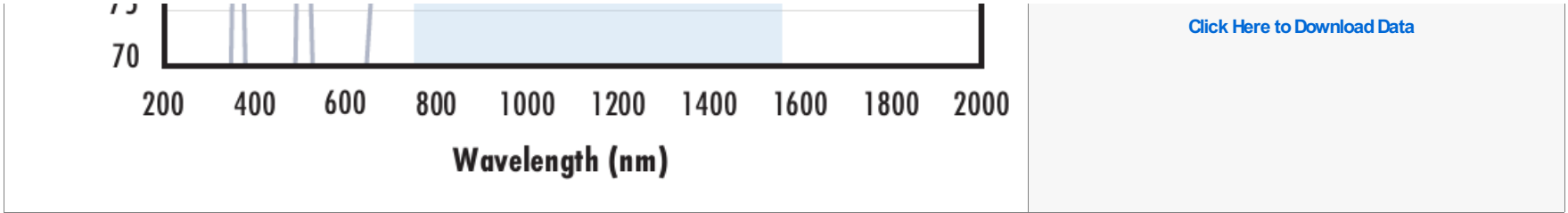
[Click Here to Download Data](#)

Fused Silica with MgF₂ Coating
Typical Transmission



 A line graph showing the typical transmission T (%) of a 3mm thick fused silica window with an MgF2 (400-700nm) coating at 0° AOI. The x-axis represents Wavelength (nm) from 200 to 2200, and the y-axis represents T (%) from 70 to 95. The transmission curve starts at approximately 93% at 200nm, rises to a peak of about 96% between 400nm and 600nm, and then gradually decreases to about 90% at 2200nm. A blue shaded region highlights the coating design wavelength range from 400nm to 700nm.	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: $R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$ (N-BK7) Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with UV-AR Coating Typical Transmission  A line graph showing the typical transmission T (%) of a 3mm thick fused silica window with a UV-AR (250-425nm) coating at 0° AOI. The x-axis represents Wavelength (nm) from 200 to 1200, and the y-axis represents T (%) from 70 to 100. The transmission curve starts at approximately 70% at 200nm, rises sharply to about 99% at 250nm, remains high until 425nm, and then gradually decreases to about 76% at 1200nm. A blue shaded region highlights the coating design wavelength range from 250nm to 425nm.	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: $R_{abs} \leq 1.0\% @ 250 - 425\text{nm}$ $R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$ $R_{avg} \leq 0.5\% @ 370 - 420\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with UV-VIS Coating Typical Transmission  A line graph showing the typical transmission T (%) of a 3mm thick fused silica window with a UV-VIS (250-700nm) coating at 0° AOI. The x-axis represents Wavelength (nm) from 200 to 1200, and the y-axis represents T (%) from 70 to 100. The transmission curve starts at approximately 70% at 200nm, rises to about 97% at 250nm, remains high until 700nm, and then gradually decreases to about 77% at 1200nm. A blue shaded region highlights the coating design wavelength range from 250nm to 700nm.	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: $R_{abs} \leq 1.0\% @ 350 - 450\text{nm}$ $R_{avg} \leq 1.5\% @ 250 - 700\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS-EXT Coating Typical Transmission  A line graph showing the typical transmission T (%) of a 3mm thick fused silica window with a VIS-EXT (350-700nm) coating at 0° AOI. The x-axis represents Wavelength (nm) from 200 to 1200, and the y-axis represents T (%) from 70 to 100. The transmission curve starts at approximately 70% at 200nm, rises to about 99% at 350nm, remains high until 700nm, and then gradually decreases to about 77% at 1200nm. A blue shaded region highlights the coating design wavelength range from 350nm to 700nm.	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: $R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS-NIR Coating Typical Transmission  A line graph showing the typical transmission T (%) of a 3mm thick fused silica window with a VIS-NIR (400-1000nm) coating at 0° AOI. The x-axis represents Wavelength (nm) from 200 to 1200, and the y-axis represents T (%) from 90 to 100. The transmission curve starts at approximately 90% at 200nm, rises to about 100% at 400nm, remains high until 1000nm, and then gradually decreases to about 90% at 1200nm. A blue shaded region highlights the coating design wavelength range from 400nm to 1000nm.	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: $R_{abs} \leq 0.25\% @ 880\text{nm}$

	$R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$ $R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$ 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: $R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$ 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: $R_{abs} \leq 0.25\% @ 532\text{nm}$ $R_{abs} \leq 0.25\% @ 1064\text{nm}$ $R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}$ 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: $R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}$ 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 	Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 1.5\% @ 750 - 800\text{nm}$ $R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}$ $R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}$ Data outside this range is not guaranteed and is for reference only.



Coating Curves

Compatible Mounts