

TECHSPEC[®] 25mm Dia. 2mm Thick VIS-EXT Coated, 1λ Fused Silica Window



TECHSPEC[®] 1λ UV Fused Silica Windows

Stock **#25-195** [CONTACT US](#)

-

1

+

€120⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€120,00 each
Qty 6-25	€95,50 each
Qty 26-49	€89,50 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):22.50

Diameter (mm):

25.00 +0.00/-0.20	
2.00 ±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-EXT (350-700nm)	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} ≤0.5% @ 350 - 700nm	Coating Specification:
350 - 700	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,

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](#).

Transmittance UV-Grade Fused Silica
(10mm Thickness)

The graph displays the transmittance of UV-Grade Fused Silica with a 10mm thickness. The primary x-axis represents Wavelength in nanometers (nm), ranging from 150 to 300 nm. The secondary x-axis represents Wavelength in microns, ranging from 1 to 5 microns. The y-axis represents Transmittance in percent (%), ranging from 0 to 100%. The transmittance is very low in the ultraviolet region, rising sharply to about 80% at 180 nm, and then reaching a plateau of approximately 90% from 200 nm to 300 nm. In the infrared region (microns), there are several absorption peaks, with the most significant one around 2.1 microns (approximately 450 nm) and another around 3.3 microns (approximately 1050 nm).

Wavelength (nm)	Wavelength (microns)	Transmittance (%)
150	0.66	0
180	0.67	80
200	0.60	90
250	0.48	90
300	0.40	90
400	0.30	90
500	0.24	90
600	0.20	90
700	0.17	90
800	0.15	90
900	0.13	90
1000	0.11	90
1100	0.10	90
1200	0.09	90
1300	0.08	90
1400	0.07	90
1500	0.07	90
1600	0.07	90
1700	0.07	90
1800	0.07	90
1900	0.07	90
2000	0.07	90
2100	0.07	90
2200	0.07	90
2300	0.07	90
2400	0.07	90
2500	0.07	90
2600	0.07	90
2700	0.07	90
2800	0.07	90
2900	0.07	90
3000	0.07	90
3100	0.07	90
3200	0.07	90
3300	0.07	90
3400	0.07	90
3500	0.07	90
3600	0.07	90
3700	0.07	90
3800	0.07	90
3900	0.07	90
4000	0.07	90
4100	0.07	90
4200	0.07	90
4300	0.07	90
4400	0.07	90
4500	0.07	90
4600	0.07	90
4700	0.07	90
4800	0.07	90
4900	0.07	90
5000	0.07	90
5100	0.07	90
5200	0.07	90
5300	0.07	90
5400	0.07	90
5500	0.07	90
5600	0.07	90
5700	0.07	90
5800	0.07	90
5900	0.07	90
6000	0.07	90
6100	0.07	90
6200	0.07	90
6300	0.07	90
6400	0.07	90
6500	0.07	90
6600	0.07	90
6700	0.07	90
6800	0.07	90
6900	0.07	90
7000	0.07	90
7100	0.07	90
7200	0.07	90
7300	0.07	90
7400	0.07	90
7500	0.07	90
7600	0.07	90
7700	0.07	90
7800	0.07	90
7900	0.07	90
8000	0.07	90
8100	0.07	90
8200	0.07	90
8300	0.07	90
8400	0.07	90
8500	0.07	90
8600	0.07	90
8700	0.07	90
8800	0.07	90
8900	0.07	90
9000	0.07	90
9100	0.07	90
9200	0.07	90
9300	0.07	90
9400	0.07	90
9500	0.07	90
9600	0.07	90
9700	0.07	90
9800	0.07	90
9900	0.07	90
10000	0.07	90



FUSED SILICA																									
Uncoated Fused Silica Typical Transmission <table border="1"><caption>Approximate data points for Uncoated Fused Silica Transmission</caption><thead><tr><th>Wavelength (nm)</th><th>Transmittance T (%)</th></tr></thead><tbody><tr><td>200</td><td>92</td></tr><tr><td>400</td><td>94</td></tr><tr><td>600</td><td>94</td></tr><tr><td>800</td><td>94</td></tr><tr><td>1000</td><td>94</td></tr><tr><td>1200</td><td>94</td></tr><tr><td>1400</td><td>92</td></tr><tr><td>1600</td><td>94</td></tr><tr><td>1800</td><td>94</td></tr><tr><td>2000</td><td>94</td></tr><tr><td>2200</td><td>90</td></tr></tbody></table>	Wavelength (nm)	Transmittance T (%)	200	92	400	94	600	94	800	94	1000	94	1200	94	1400	92	1600	94	1800	94	2000	94	2200	90	Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra. Click Here to Download Data
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	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 	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 	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 	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 	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:

	$R_{abs} \leq 0.25\% @ 880nm$ $R_{avg} \leq 1.25\% @ 400 - 870nm$ $R_{avg} \leq 1.25\% @ 890 - 1000nm$ 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: $R_{avg} \leq 0.4\% @ 425 - 675nm$ 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: $R_{abs} \leq 0.25\% @ 532nm$ $R_{abs} \leq 0.25\% @ 1064nm$ $R_{avg} \leq 1.0\% @ 500 - 1100nm$ 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: $R_{avg} \leq 0.5\% @ 600 - 1050nm$ 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: $R_{abs} \leq 1.5\% @ 750 - 800nm$ $R_{abs} \leq 1.0\% @ 800 - 1550nm$ $R_{avg} \leq 0.7\% @ 750 - 1550nm$ Data outside this range is not guaranteed and is for reference



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