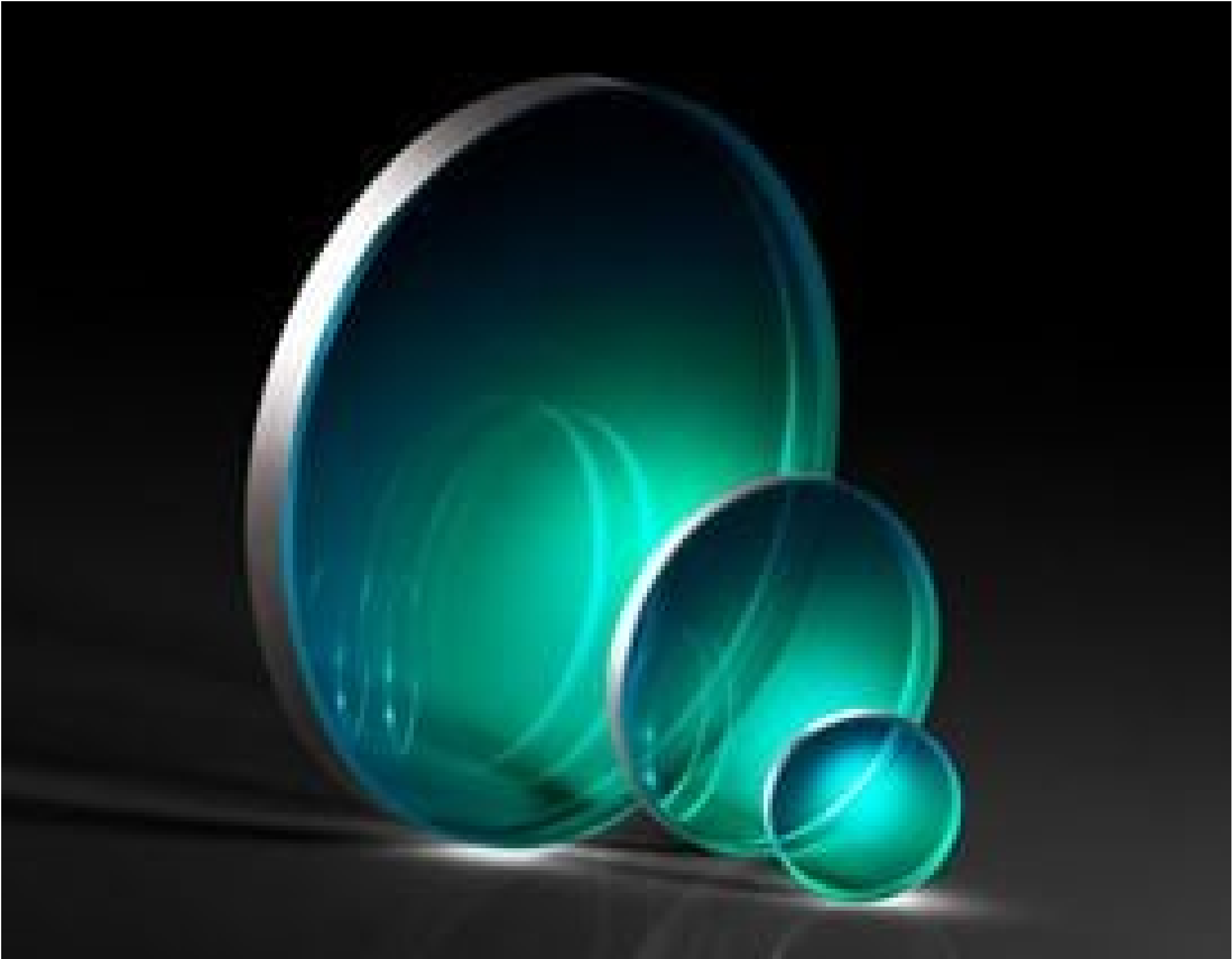


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TECHSPEC®

12.5mm Dia., 2mm Thick, UV-AR Coated, λ /4 Fused Silica Window



TECHSPEC® λ /4 UVFused Silica Windows

Stock **#25-636** **3 In Stock**

-

1

+

£110⁴⁰

ADD TO CART

Volume Pricing	
Qty 1-5	£110.40 each
Qty 6-25	£88.00 each
Qty 26-49	£82.40 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Protective Window

Type:

Physical & Mechanical Properties

Protective as needed

Bevel:

Clear Aperture (%):

90	
11.25	Clear Aperture CA (mm):
12.50 +0.00/-0.10	Diameter (mm):
2.00 ±0.10	Thickness (mm):
Fine Ground	Edges:
522.00	Knoop Hardness (kg/mm²):
<1	Parallelism (arcmin):
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):

Optical Properties	
67.8	Abbe Number (v _d):
UV-AR (250-425nm)	Coating:
R _{abs} ≤1.0% @ 250 - 425nm R _{avg} ≤0.75% @ 250 - 425nm R _{avg} ≤0.5% @ 370 - 420nm	Coating Specification:
1.458	Index of Refraction (n _d):
Fused Silica (Corning 7980)	Substrate:
40-20	Surface Quality:
λ/4	Transmitted Wavefront, P-V:
250 - 450	Wavelength Range (nm):

3 J/cm² @ 355nm, 10ns	Damage Threshold, Reference: ☐
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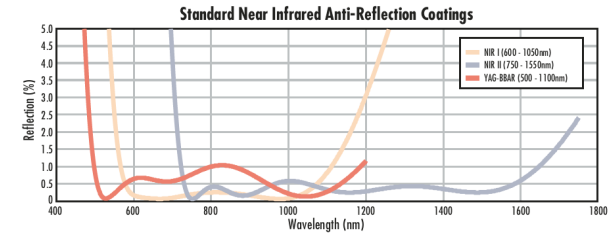
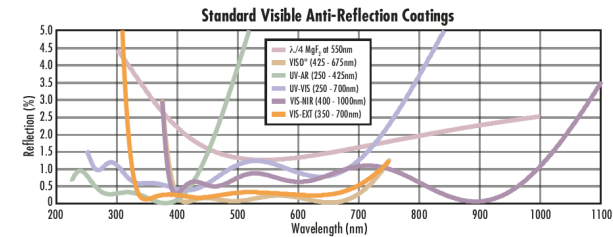
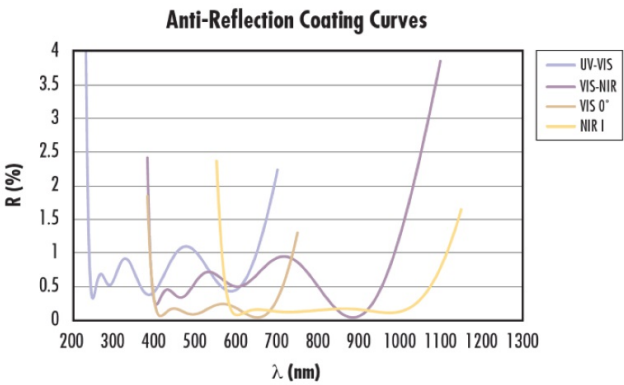
Material Properties	
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
2.20	Density (g/cm³):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	REACH 241:

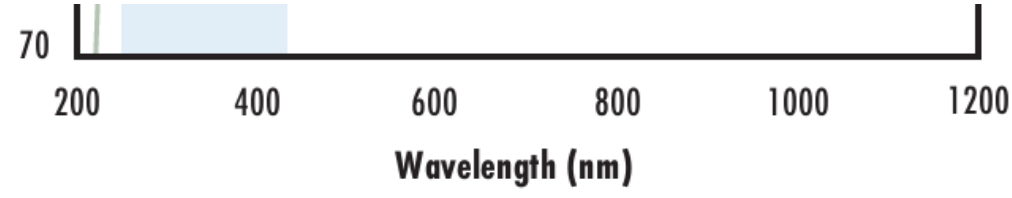
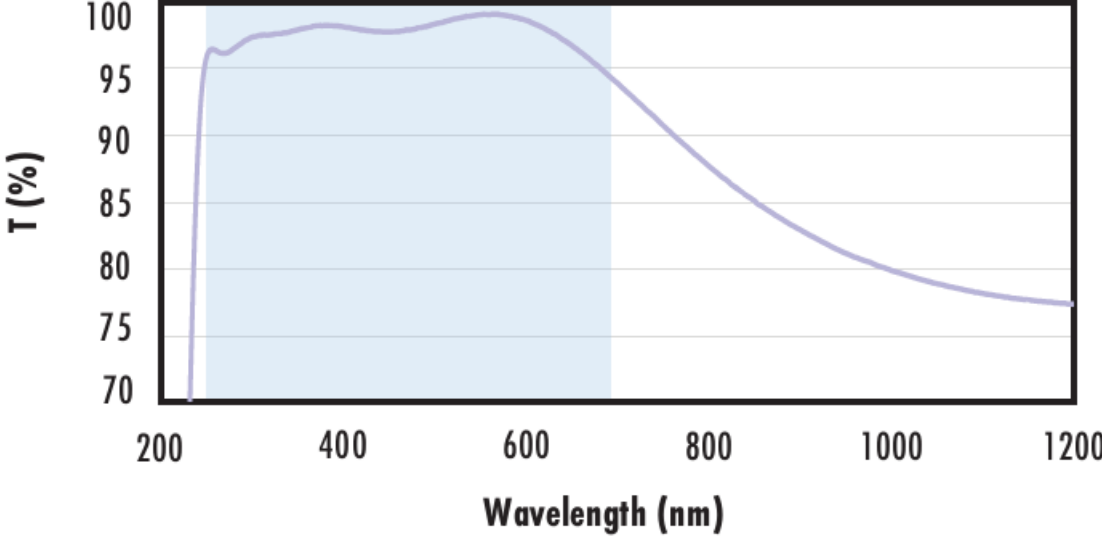
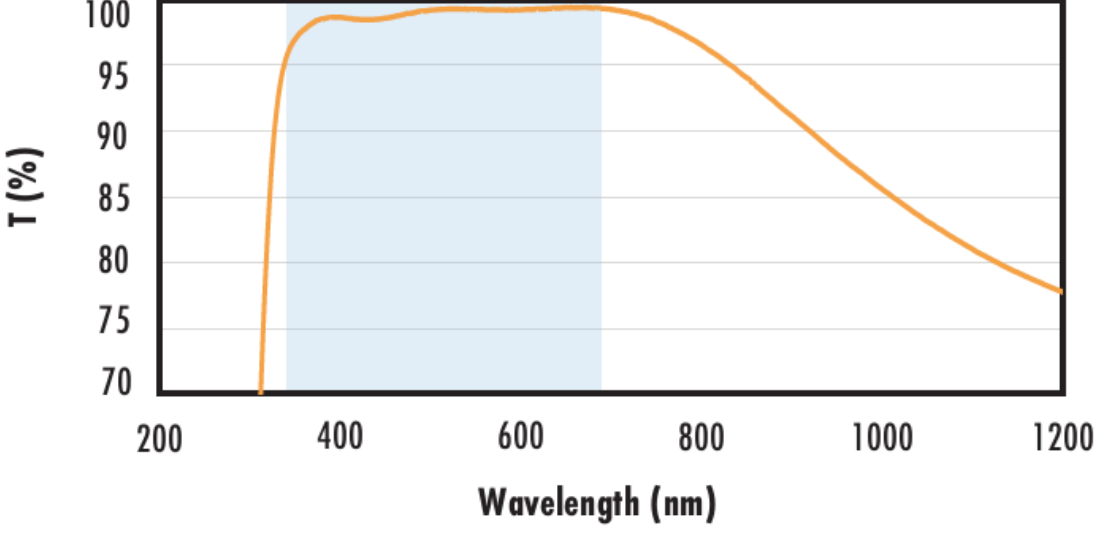
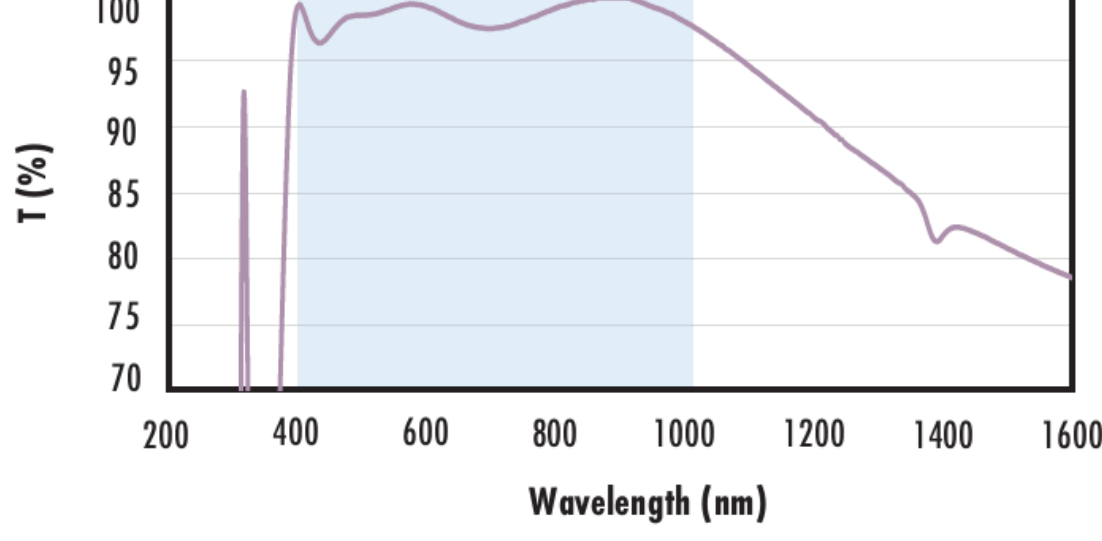
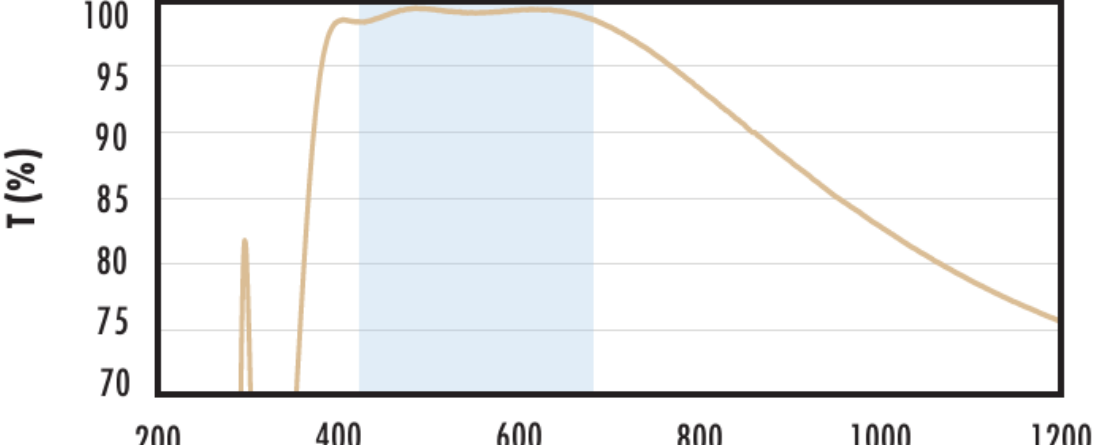
Product Details

- 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		
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 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 - 700nm (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 - 425nm $R_{avg} \leq 0.75\%$ @ 250 - 425nm $R_{avg} \leq 0.5\%$ @ 370 - 420nm 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\% \text{ @ } 350 - 450\text{nm}$$R_{avg} \leq 1.5\% \text{ @ } 250 - 700\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS-EXT Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 0.5\% \text{ @ } 350 - 700\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS-NIR Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}$$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

Wavelength (nm) Fused Silica with YAG-BBAR Coating Typical Transmission <table><caption>Approximate data for Fused Silica with YAG-BBAR Coating</caption><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr><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></table> 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: $R_{\text{abs}} \leq 0.25\%$ @ 532nm $R_{\text{abs}} \leq 0.25\%$ @ 1064nm $R_{\text{avg}} \leq 1.0\%$ @ 500 - 1100nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data	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																	
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Fused Silica with NIR I Coating Typical Transmission <table><caption>Approximate data for Fused Silica with NIR I Coating</caption><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr><tr><td>200</td><td>70</td></tr><tr><td>250</td><td>70</td></tr><tr><td>300</td><td>70</td></tr><tr><td>350</td><td>70</td></tr><tr><td>400</td><td>70</td></tr><tr><td>450</td><td>98</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>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>85</td></tr><tr><td>1500</td><td>80</td></tr><tr><td>1600</td><td>78</td></tr></table> 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: $R_{\text{avg}} \leq 0.5\%$ @ 600 - 1050nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data	Wavelength (nm)	Transmission T (%)	200	70	250	70	300	70	350	70	400	70	450	98	500	70	550	95	600	100	700	100	800	100	900	100	1000	100	1100	100	1200	98	1300	95	1400	85	1500	80	1600	78															
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Fused Silica with NIR II Coating Typical Transmission <table><caption>Approximate data for Fused Silica with NIR II Coating</caption><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr><tr><td>200</td><td>70</td></tr><tr><td>250</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>550</td><td>70</td></tr><tr><td>600</td><td>70</td></tr><tr><td>650</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>98</td></tr><tr><td>1800</td><td>96</td></tr><tr><td>1900</td><td>93</td></tr><tr><td>2000</td><td>91</td></tr></table> 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: $R_{\text{abs}} \leq 1.5\%$ @ 750 - 800nm $R_{\text{abs}} \leq 1.0\%$ @ 800 - 1550nm $R_{\text{avg}} \leq 0.7\%$ @ 750 - 1550nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data	Wavelength (nm)	Transmission T (%)	200	70	250	70	300	70	350	94	400	70	450	96	500	70	550	70	600	70	650	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	98	1800	96	1900	93	2000	91	
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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:

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- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

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