

TECHSPEC[®] 1λ-Quarzglasfenster, 12,5 mm Durchmesser, 2 mm Dicke, YAG-BBAR-beschichtet



TECHSPEC[®] 1λ UV Fused Silica Windows

Produkt **#25-216** **4 In Stock**

-

1

+

€109⁰⁰

+ WARENKORB

Mengenrabatte	
Stk. 1-5	€109,00 stückpreis
Stk. 6-25	€87,00 stückpreis
Stk. 26-49	€81,50 stückpreis
Need More?	Angebotsanfrage

 Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Protective Window

Typ:

Physikalische und mechanische Eigenschaften

11.25

Freie Apertur CA (mm):

Durchmesser (mm):

12.50 +0.00/-0.20	
	Dicke (mm):
2.00 ±0.38	
	Parallelität (Bogenminuten):
<5	
	Fase:
Protective as needed	
	Freie Apertur (%):
90	
	Kanten:
Fine Ground	
	Poisson-Zahl:
0.16	
	Elastizitätsmodul (GPa):
73	
	Knoop-Härte (kg/mm²):
522.00	

Optische Eigenschaften

	Beschichtung:
YAG-BBAR (500-1100nm)	
	Substrat: ☐
Fused Silica (Corning 7980)	
	Brechungsindex (n _d):
1.458	
	Oberflächenqualität:
60-40	
	Abbe-Zahl (v _d):
67.8	
	Beschichtungsspezifikation:
R _{abs} ≤0.25% @ 532nm R _{abs} ≤0.25% @ 1064nm R _{avg} ≤1.0% @ 500 - 1100nm	
	Wellenlängenbereich (nm):
500 - 1100	
	Oberflächenebenheit (P-V):
1λ	
	Zerstörschwelle, Referenz: ☐
5 J/cm² @ 532nm, 10ns	

Materialeigenschaften

	Dichte (g/cm³):
2.20	
	Thermischer Ausdehnungskoeffizient CTE (10 ⁻⁶ /°C):
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	
	Güte Quarzglas:
7980 0G	

Konformität mit Standards

	RoHS 2015:
Konform	
	Konformitätszertifikat:
Anzeigen	
	Reach 235:
Konform	

Gewünschte Spezifikationen nicht dabei?

Edmund Optics bietet einen umfangreichen kundenspezifischen Fertigungsservice für Optik- und Bildverarbeitungskomponenten an, speziell hergestellt für Ihre Anwendungsanforderungen. Wir ermöglichen flexible Lösungen für Ihre Bedürfnisse – von der Prototypenphase bis zur Serienfertigung. Unsere erfahrenen IngenieurInnen freuen sich auf die Zusammenarbeit und unterstützen Sie bei jedem Projektschritt.

Unser Service beinhaltet:

- Kundenspezifische Abmessungen, Materialien und mehr
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- Enge Toleranzen und komplexe Formen
- Skalierbare Produktion – vom Prototypen zur Serie

Erfahren Sie mehr über unsere [kundenspezifischen Fertigungsmöglichkeiten](#) oder senden Sie [hier](#) eine Anfrage.

Produktdetails

- Lieferbar ohne Beschichtung oder mit breitbandiger Antireflexionsbeschichtung
- Ideal für kostenkritische breitbandige Anwendungen
- Rund oder quadratisch mit Größen von 5 mm bis 100 mm
- [λ/4](#)- oder [λ/10](#)-Fenster aus UV-Quarzglas ebenfalls erhältlich

Bitte beachten Sie: Neue Produkte, die zu dieser Produktfamilie hinzugefügt werden, können mit der transmittierten Wellenfrontverzerrung (TWD) und nicht mehr mit der Oberflächenebenheit spezifiziert sein. Weitere Informationen über den Unterschied zwischen den beiden Spezifikationen finden Sie unter [Grundlagen optischer Fenster](#).

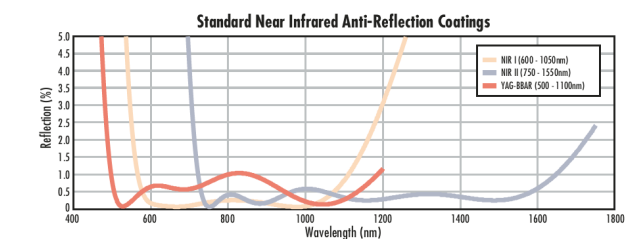
Transmittance UV-Grade Fused Silica
(10mm Thickness)

The graph displays the transmittance of UV-Grade Fused Silica with a 10mm thickness. The left y-axis represents Transmittance in percent (%), ranging from 0 to 100. The bottom x-axis represents Wavelength in nanometers (nm), ranging from 150 to 300. A secondary x-axis on the right represents Wavelength in microns, ranging from 1 to 5. The transmittance is near 0% in the ultraviolet region (below 200 nm) and increases sharply to approximately 90% at 200 nm. It remains high (above 90%) through the visible spectrum (400-700 nm) and into the near-infrared region (up to 3000 nm or 3 microns). There is a significant absorption peak around 2.1 microns (approximately 470 nm). The transmittance drops to near 0% in the far-infrared region (above 4 microns).

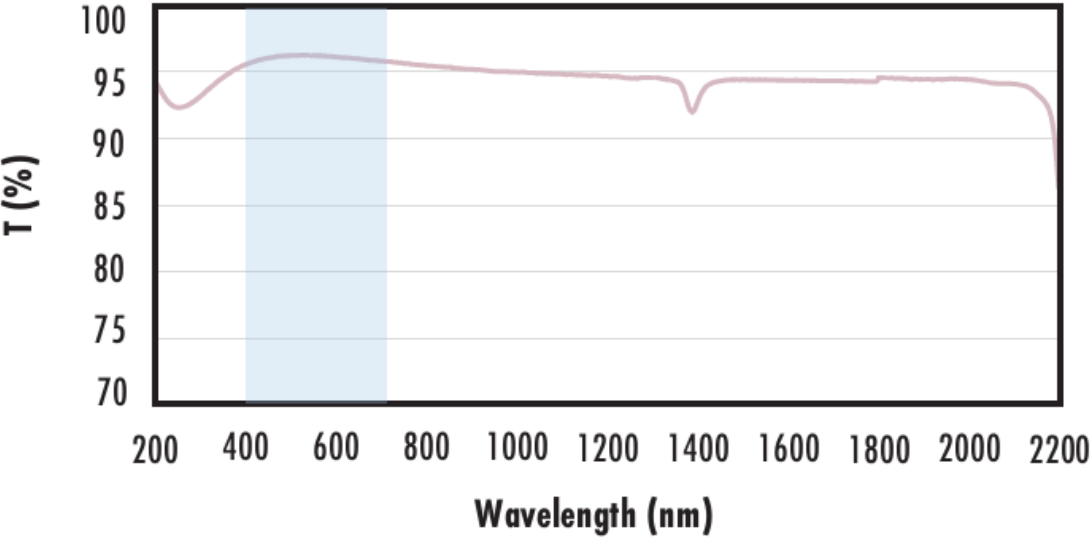
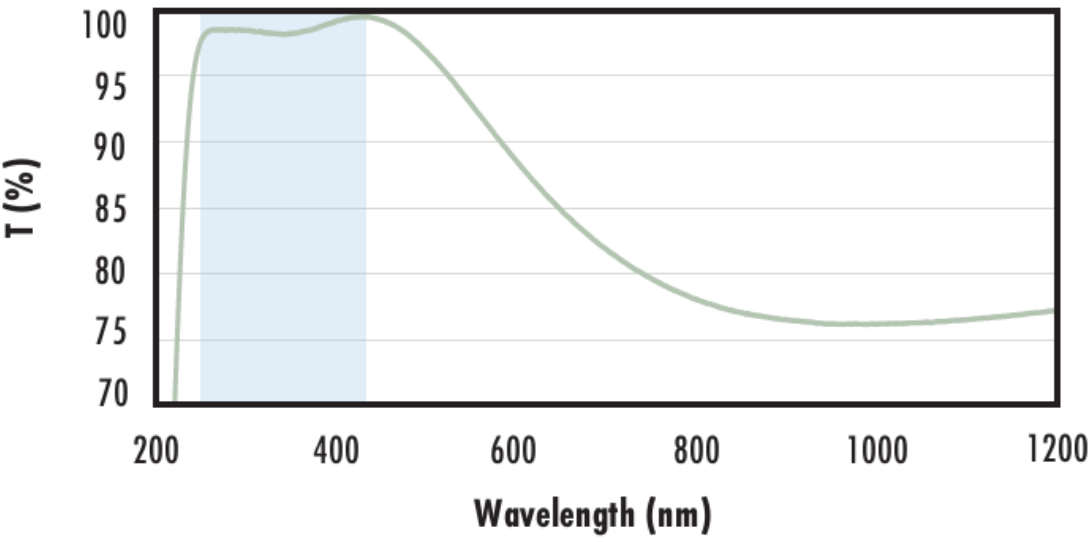
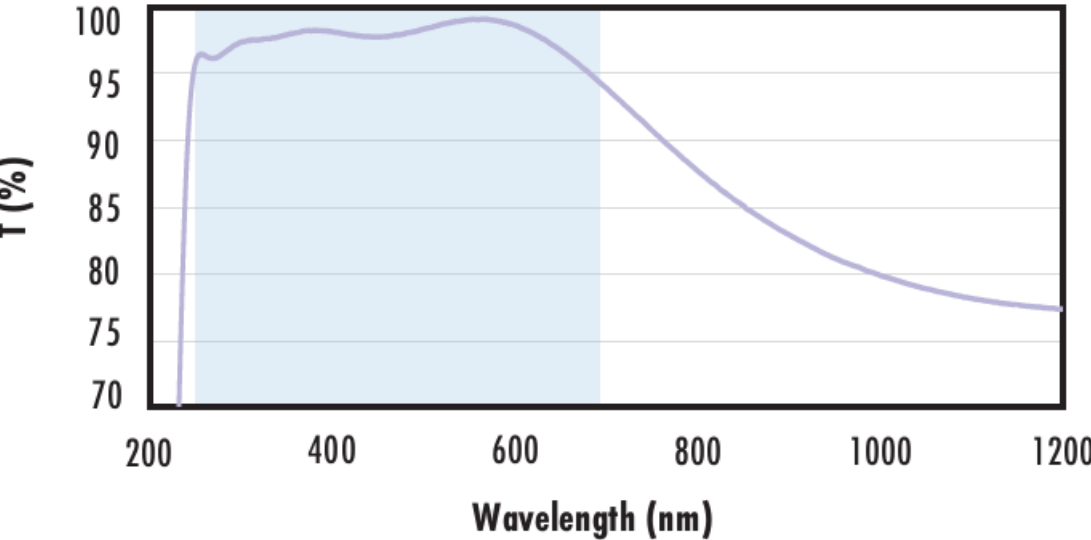
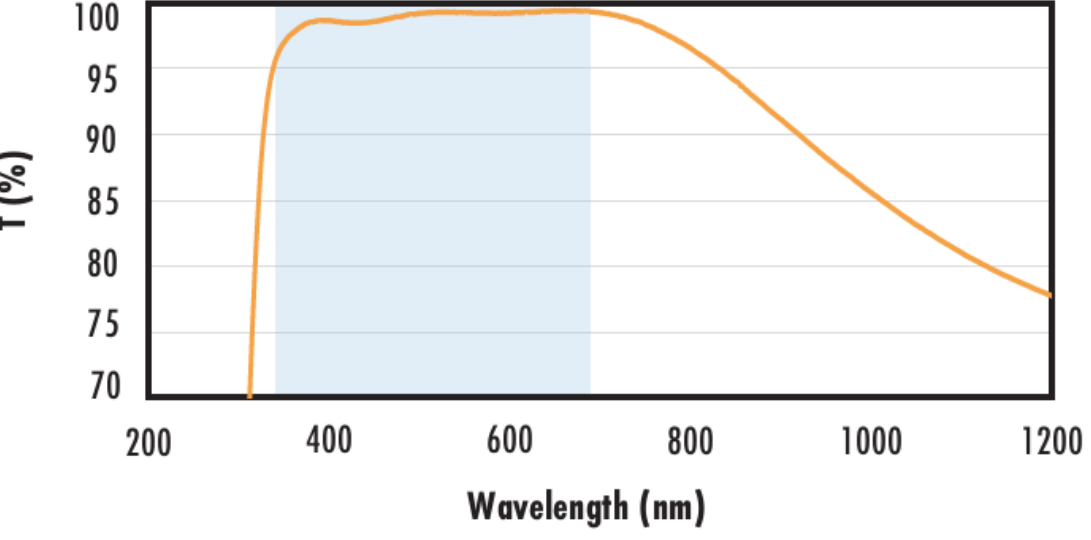
Wavelength (nm)	Wavelength (microns)	Transmittance (%)
150	0.75	0
200	1.0	90
300	1.5	95
400	2.5	95
500	3.3	95
600	4.0	95
700	4.7	95
800	5.5	95
900	6.3	95
1000	7.1	95
1100	8.0	95
1200	8.9	95
1300	9.8	95
1400	10.7	95
1500	11.6	95
1600	12.5	95
1700	13.4	95
1800	14.3	95
1900	15.2	95
2000	16.1	95
2100	17.0	95
2200	17.9	95
2300	18.8	95
2400	19.7	95
2500	20.6	95
2600	21.5	95
2700	22.4	95
2800	23.3	95
2900	24.2	95
3000	25.1	95
3100	26.0	95
3200	26.9	95
3300	27.8	95
3400	28.7	95
3500	29.6	95
3600	30.5	95
3700	31.4	95
3800	32.3	95
3900	33.2	95
4000	34.1	95
4100	35.0	95
4200	35.9	95
4300	36.8	95
4400	37.7	95
4500	38.6	95
4600	39.5	95
4700	40.4	95
4800	41.3	95
4900	42.2	95
5000	43.1	95
5100	44.0	95
5200	44.9	95
5300	45.8	95
5400	46.7	95
5500	47.6	95
5600	48.5	95
5700	49.4	95
5800	50.3	95
5900	51.2	95
6000	52.1	95
6100	53.0	95
6200	53.9	95
6300	54.8	95
6400	55.7	95
6500	56.6	95
6600	57.5	95
6700	58.4	95
6800	59.3	95
6900	60.2	95
7000	61.1	95
7100	62.0	95
7200	62.9	95
7300	63.8	95
7400	64.7	95
7500	65.6	95
7600	66.5	95
7700	67.4	95
7800	68.3	95
7900	69.2	95
8000	70.1	95
8100	71.0	95
8200	71.9	95
8300	72.8	95
8400	73.7	95
8500	74.6	95
8600	75.5	95
8700	76.4	95
8800	77.3	95
8900	78.2	95
9000	79.1	95
9100	80.0	95
9200	80.9	95
9300	81.8	95
9400	82.7	95
9500	83.6	95
9600	84.5	95
9700	85.4	95
9800	86.3	95
9900	87.2	95
10000	88.1	95

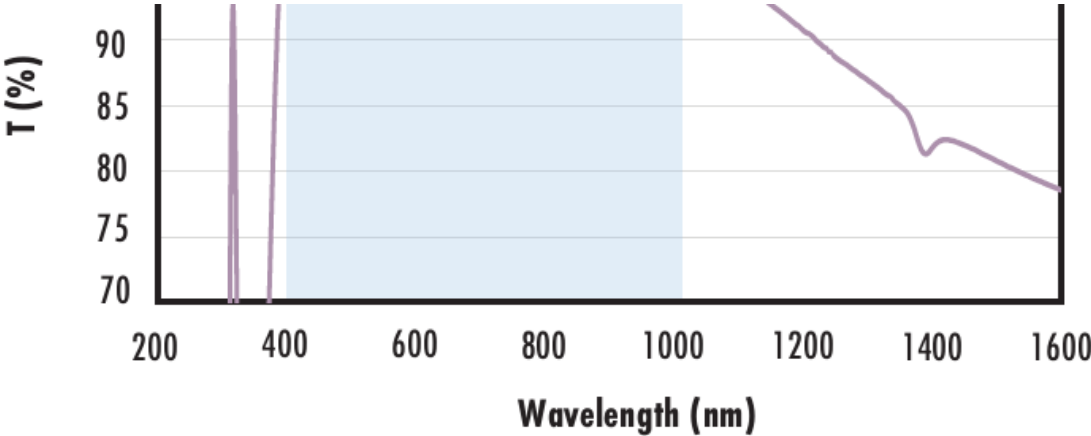
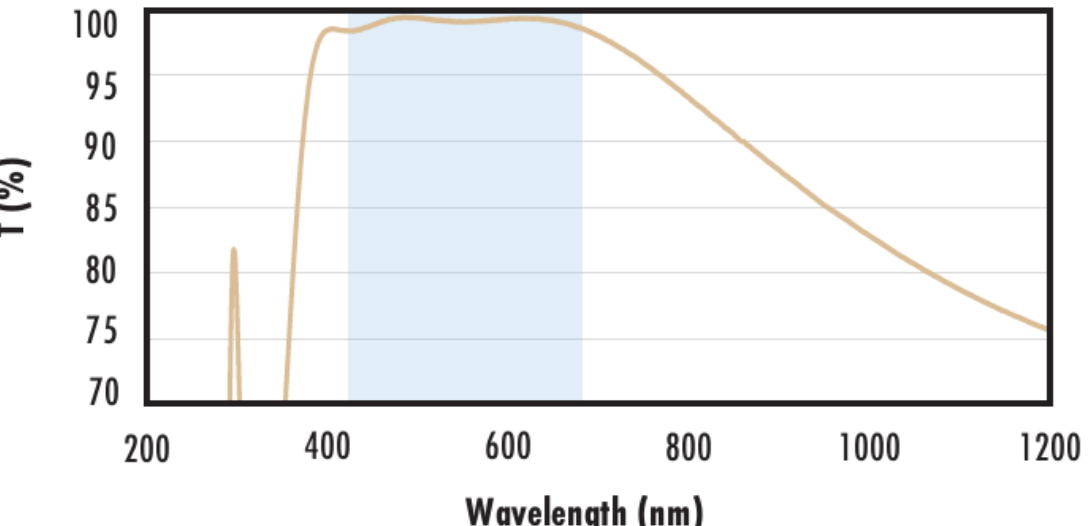
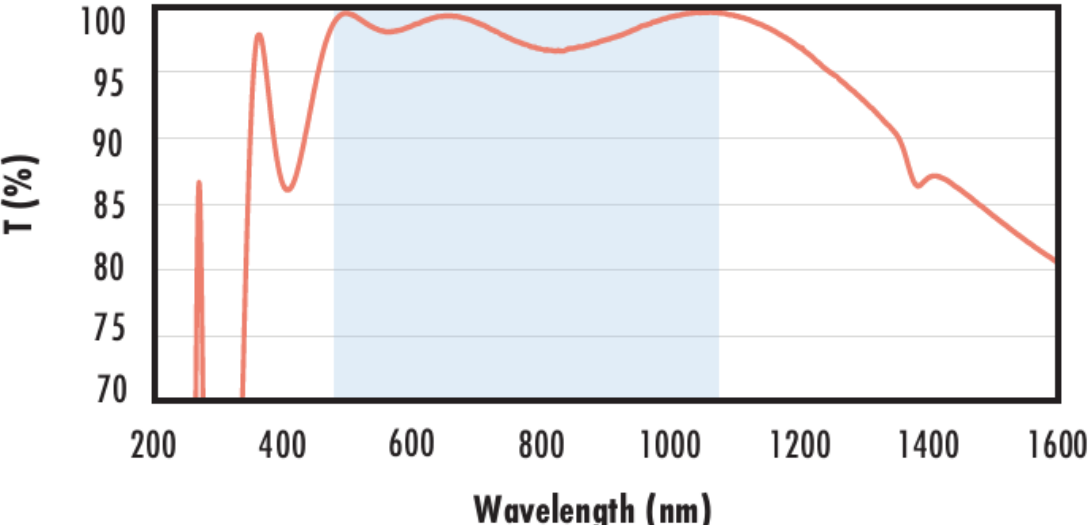
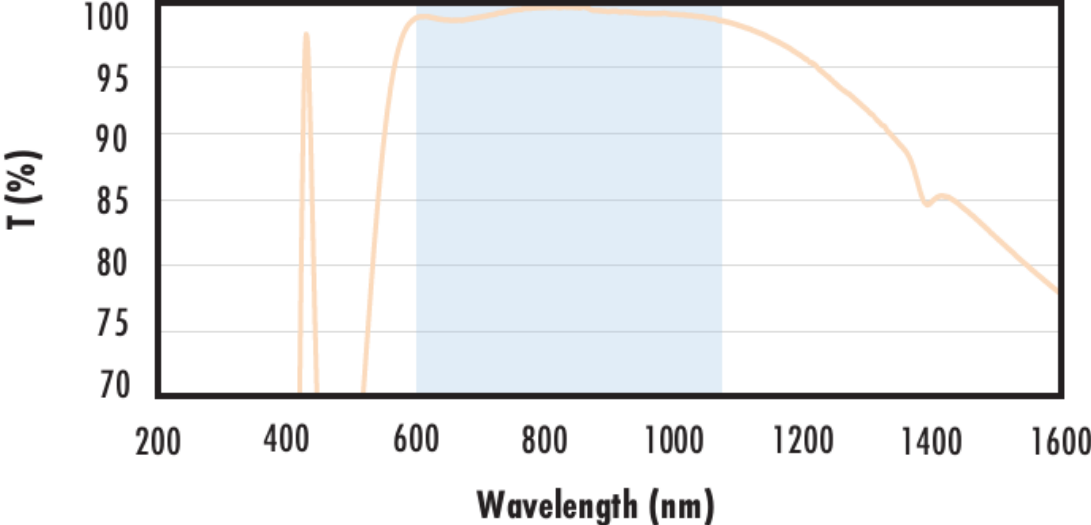
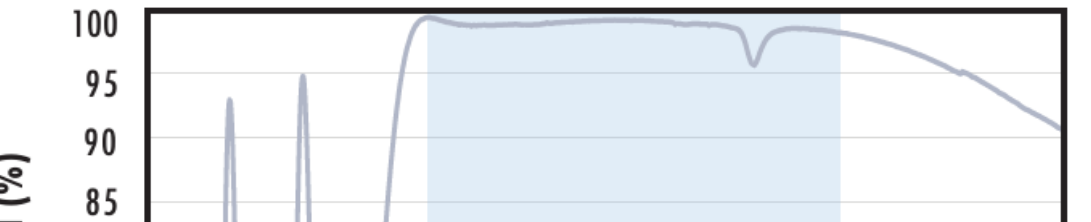
Anti-Reflective Coating Curves

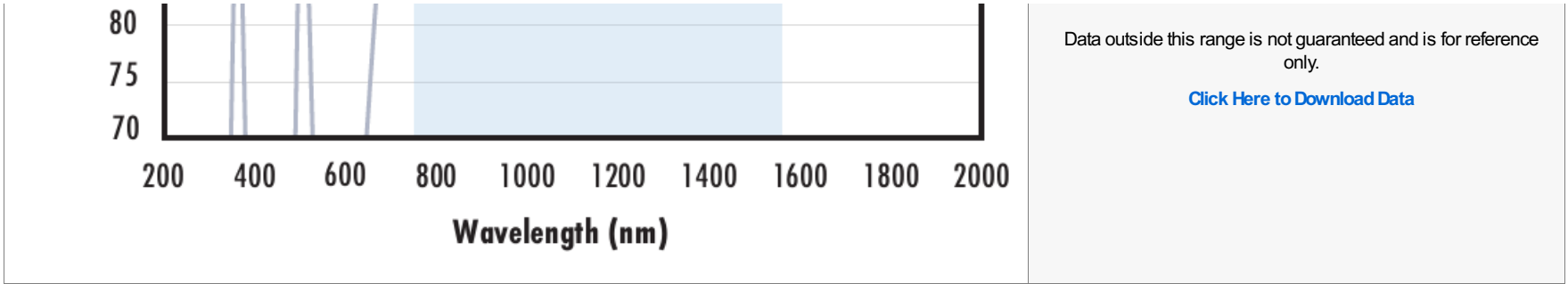
Wavelength (nm)	UV-AR Reflectance (%)	UV-VIS Reflectance (%)	VIS-NIR Reflectance (%)
200	1.6	2.5	2.5
300	0.2	0.5	2.5
400	0.3	0.4	2.5
500	2.5	1.0	0.6
600	0.4	0.4	0.6
700	0.4	2.2	0.9
800	0.4	0.4	0.4
900	0.4	0.4	0.1
1000	0.4	0.4	1.2



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: $R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$ (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:

	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: $R_{abs} \leq 1.5\% @ 750 - 800nm$ $R_{abs} \leq 1.0\% @ 800 - 1550nm$ $R_{avg} \leq 0.7\% @ 750 - 1550nm$



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