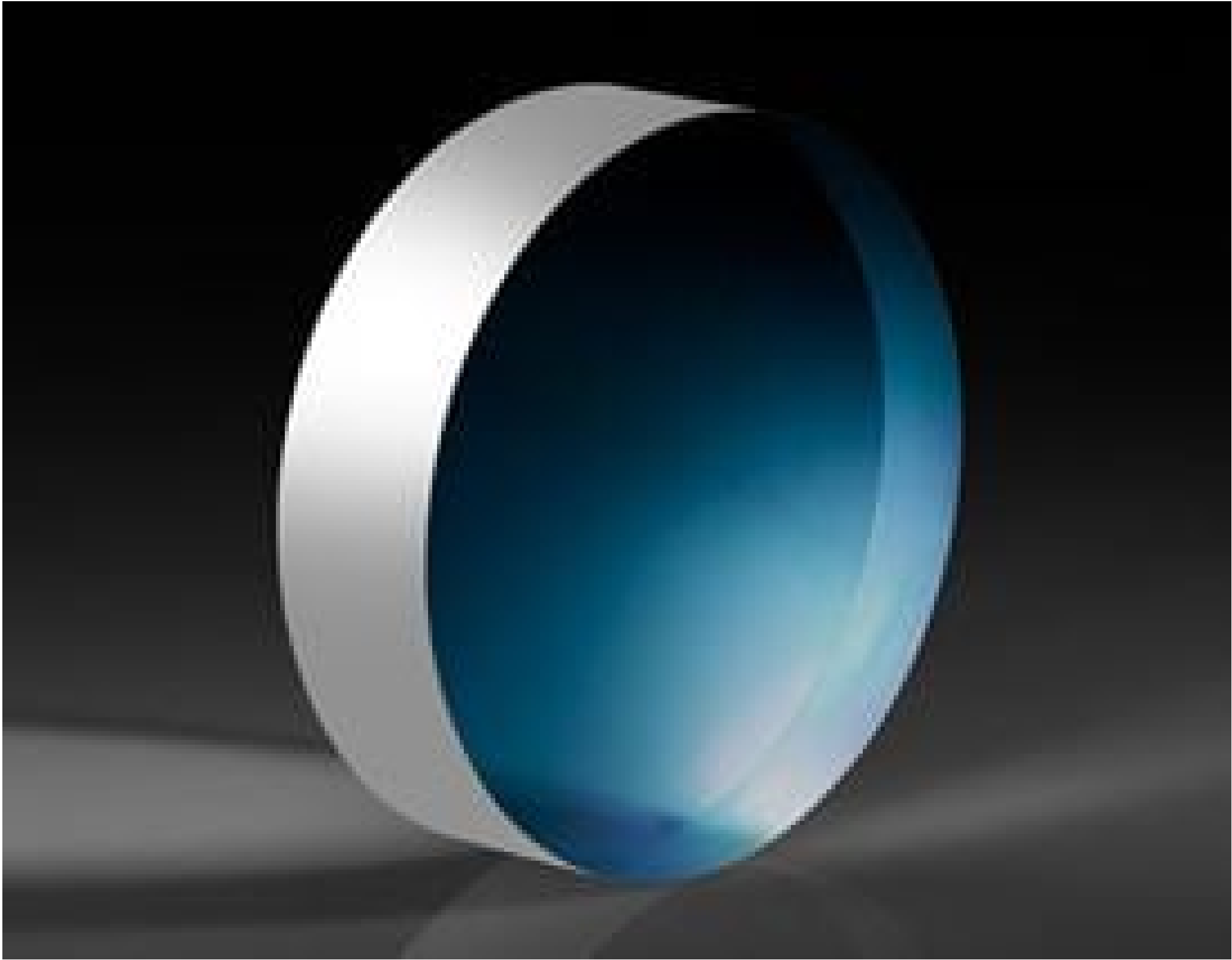


TECHSPEC[®] 1λ Quarzglasfenster, 25 mm Durchmesser, 1 mm Dicke, MgF₂-beschichtet



Produkt **#19-845** **14 In Stock**

-

1

+

€101^{,00}

+ WARENKORB

Mengenrabatte	
Stk. 1-5	€101,00 stückpreis
Stk. 6-25	€81,00 stückpreis
Stk. 26-49	€76,00 stückpreis
Need More?	Angebotsanfrage

! Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Protective Window

Typ:

Physikalische und mechanische Eigenschaften

22.50

Freie Apertur CA (mm):

25.00 +0.00/-0.20

Durchmesser (mm):

1.00 ±0.38	Dicke (mm):
<5	Parallelität (Bogenminuten):
Protective as needed	Fase:
90	Freie Apertur (%):
Fine Ground	Kanten:
0.16	Poisson-Zahl:
73	Elastizitätsmodul (GPa):
522.00	Knoop-Härte (kg/mm²):

Optische Eigenschaften

MgF ₂ (400-700nm)	Beschichtung:
Fused Silica (Corning 7980)	Substrat: ☐
1.458	Brechungsindex (n _d):
60-40	Oberflächenqualität:
1λ	Transmittierte Wellenfront, P-V:
67.8	Abbe-Zahl (v _d):
R _{avg} ≤1.75% @ 400 - 700nm	Beschichtungsspezifikation:
400 - 700	Wellenlängenbereich (nm):
10 J/cm² @ 532nm, 10ns	Zerstörschwelle, laut Design: ☐

Materialeigenschaften

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

Konformität mit Standards

Konform	RoHS 2015:
Anzeigen	Konformitätszertifikat:
Konform	Reach 235:

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
- Hochpräzise Oberflächenqualität und -ebenheit
- 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

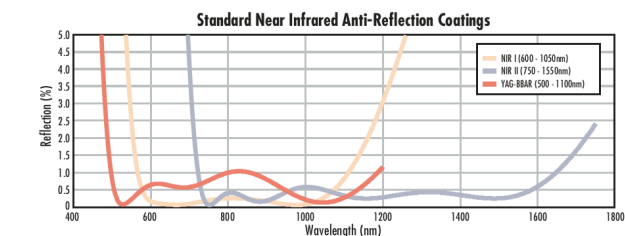
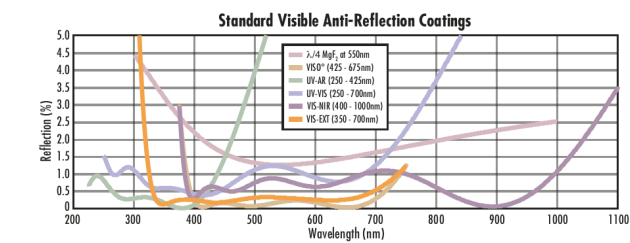
TECHSPEC® 1λ-Fenster aus UV-Quarzglas werden präzise aus synthetischem UV-Quarzglas gefertigt. Das synthetische Quarzglas hat nicht nur bessere Transmissionseigenschaften, sondern auch bessere thermische Eigenschaften und zeichnet sich durch außergewöhnliche Reinheit und Beständigkeit gegenüber Umwelteinflüssen bei anspruchsvollen Anwendungen aus. Die Fenster eignen sich ideal für kostensensible Breitband-

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](#).

The graph shows 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, ranging from 150 to 300. The right x-axis represents Wavelength in microns, ranging from 1 to 5. The curve shows high transmittance (above 80%) from 200 nm to 300 nm, with a sharp drop-off below 200 nm. There are also absorption peaks around 1.7 microns and 3.0 microns.

The graph, titled "Anti-Reflective Coating Curves", plots Reflectance (%) on the y-axis (0 to 2.5) against Wavelength (nm) on the x-axis (200 to 1000). Three curves are shown: UV-AR (blue), UV-VIS (red), and VIS-NIR (green). The UV-AR curve has a minimum reflectance near 300 nm. The UV-VIS curve has a minimum reflectance near 400 nm. The VIS-NIR curve has a minimum reflectance near 850 nm.

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	0.3	2.5
500	2.5	1.0	0.5
600	0.5	0.4	0.6
700	0.5	2.2	0.9
800	0.5	0.5	0.8
900	0.5	0.5	0.1
1000	0.5	0.5	1.2



FUSED SILICA

Uncoated Fused Silica Typical Transmission

A line graph showing the typical transmission of uncoated fused silica across the UV-NIR spectrum. The y-axis is labeled 'T (%)' and ranges from 70 to 100 in increments of 5. The x-axis is labeled 'Wavelength (nm)' and ranges from 200 to 2200 in increments of 200. The transmission curve is a solid red line that starts at approximately 92% at 200 nm, rises to about 94% by 400 nm, and remains relatively flat until 1300 nm. There is a sharp dip to about 91% at 1400 nm. The transmission then rises slightly to about 94.5% at 1800 nm and remains flat until 2100 nm, where it begins to drop sharply, reaching about 90% at 2200 nm.

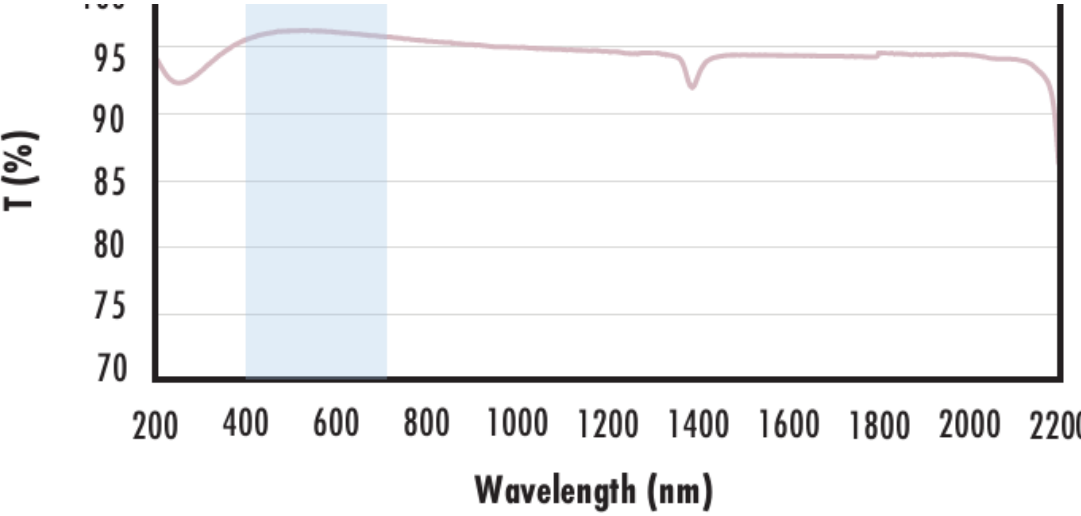
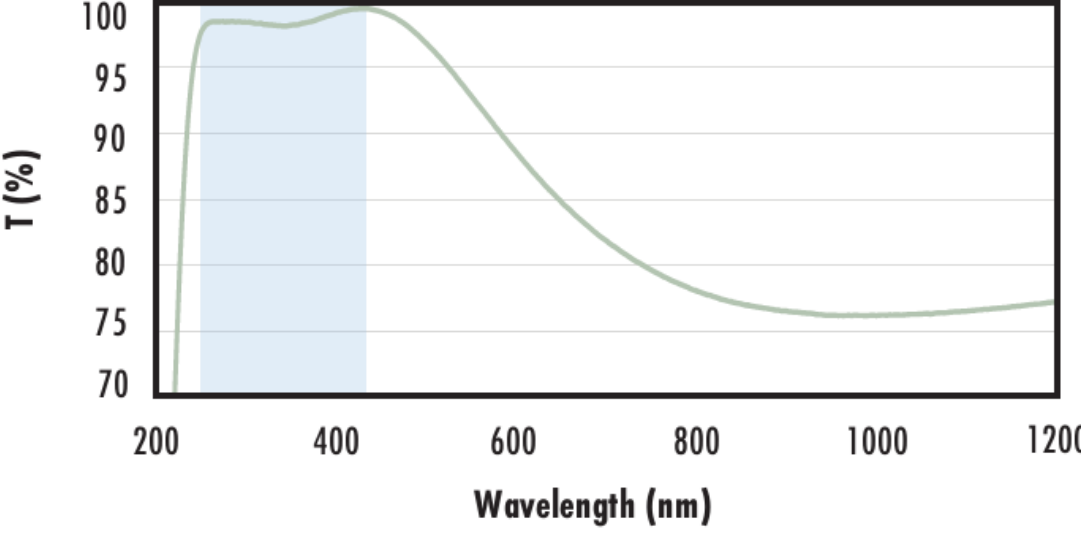
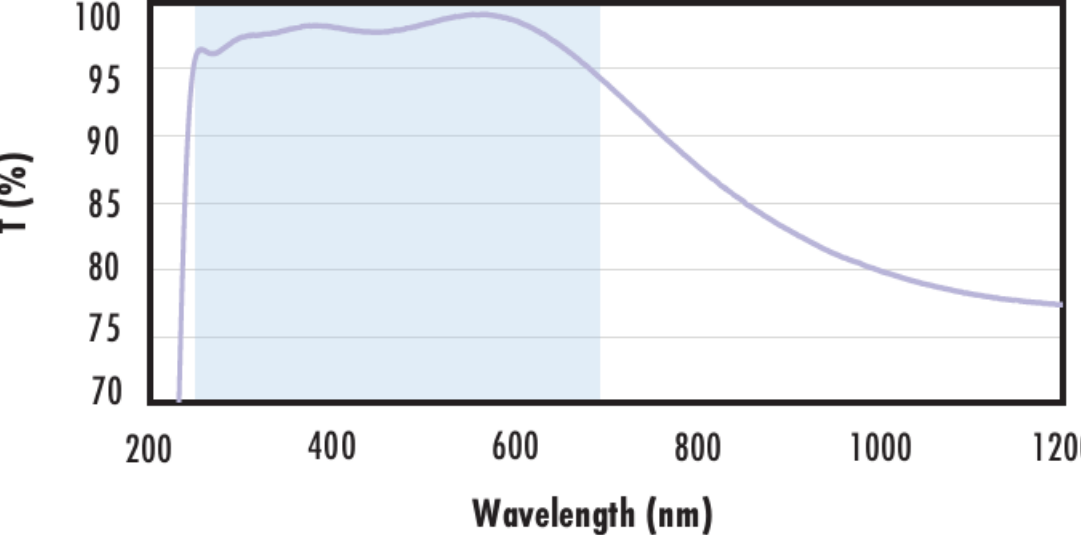
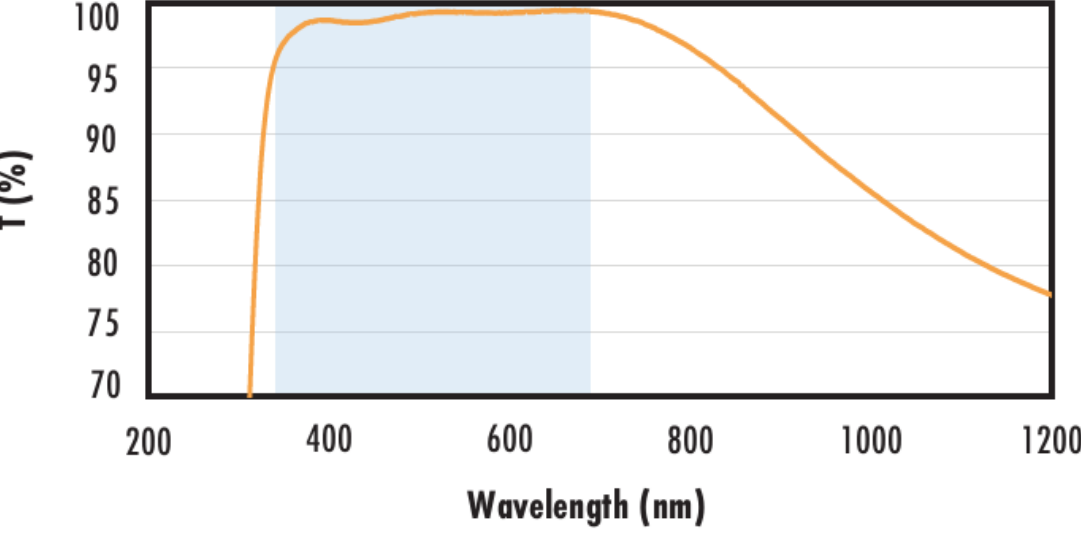
Wavelength (nm)	Transmission T (%)
200	92
400	94
600	94
800	94
1000	94
1200	94
1400	91
1600	94
1800	94.5
2000	94.5
2200	90

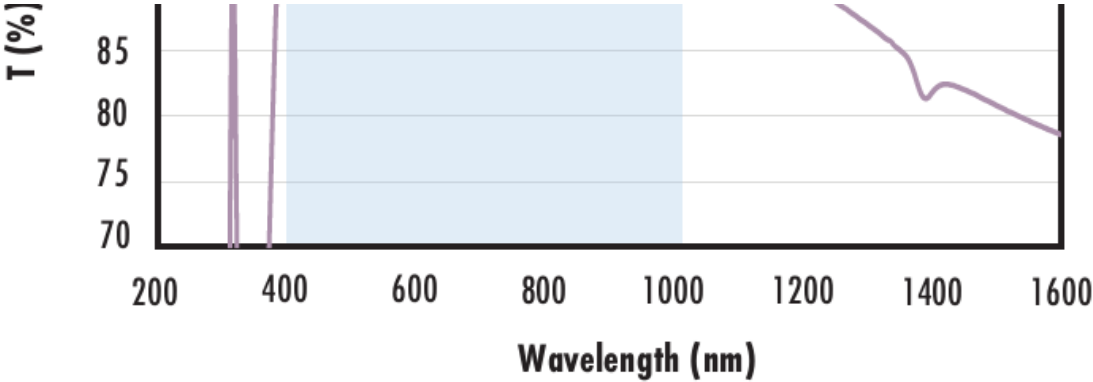
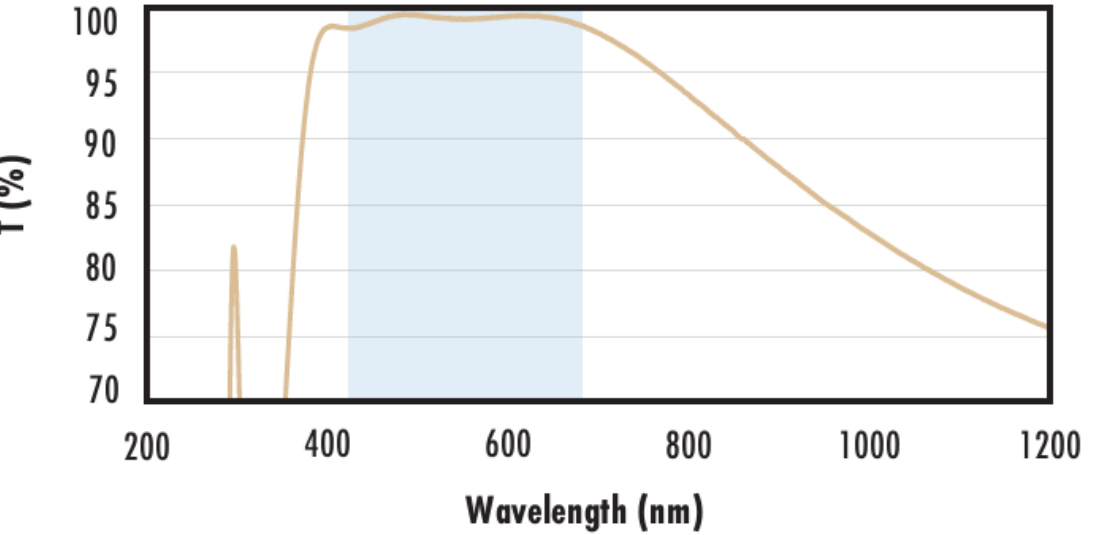
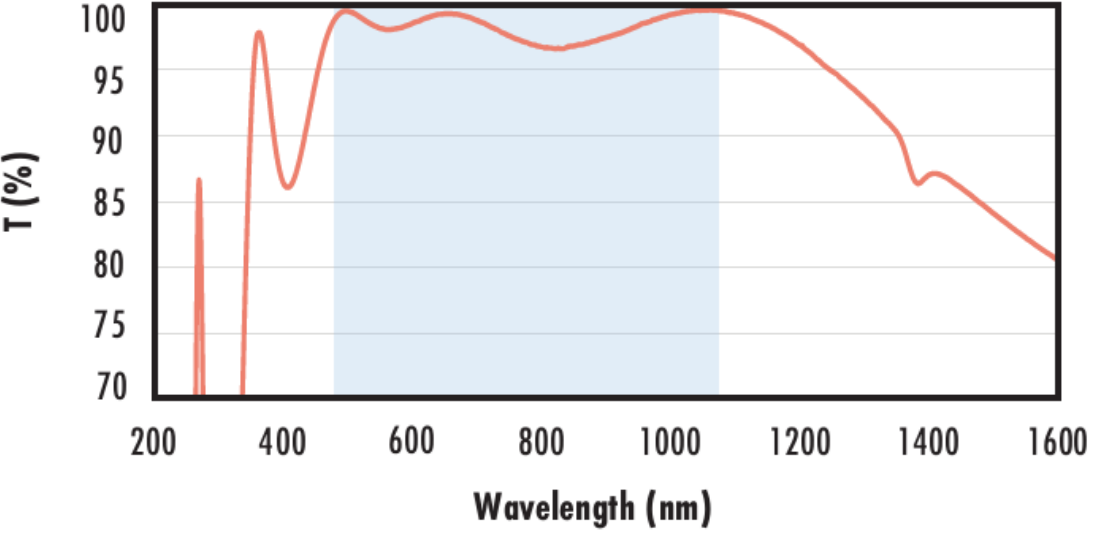
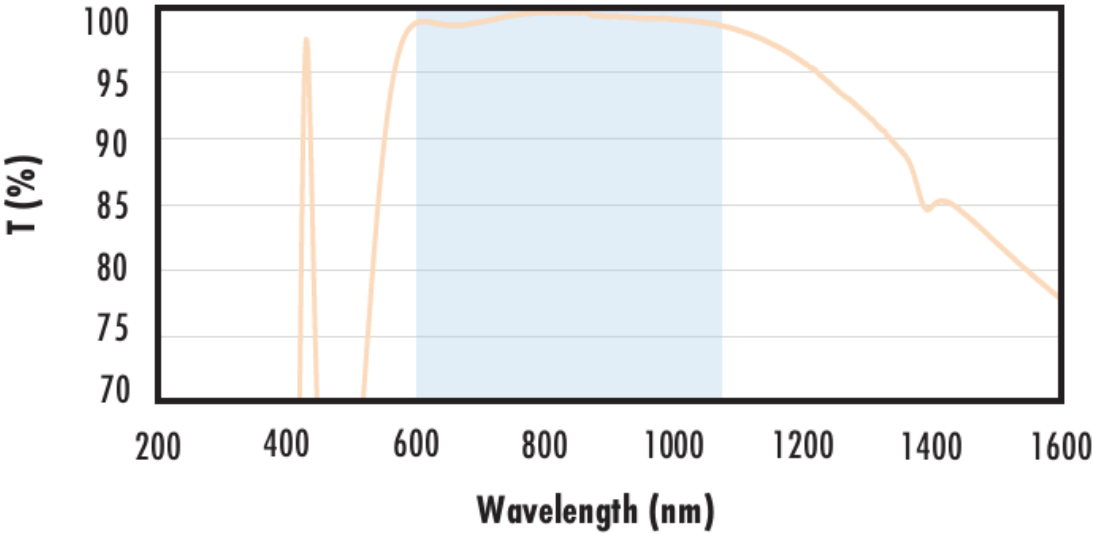
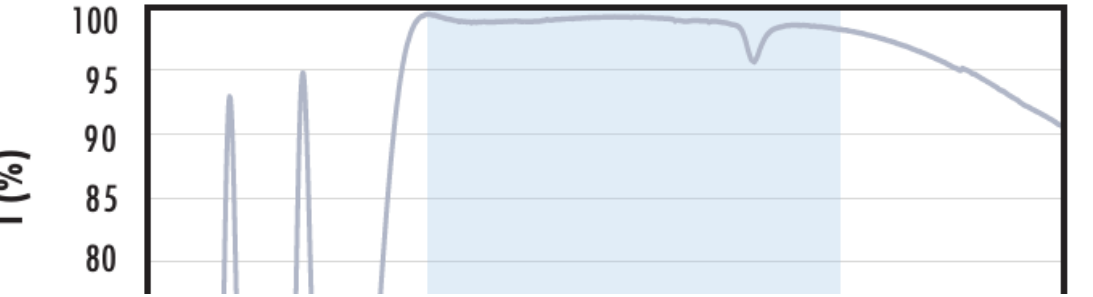
Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.

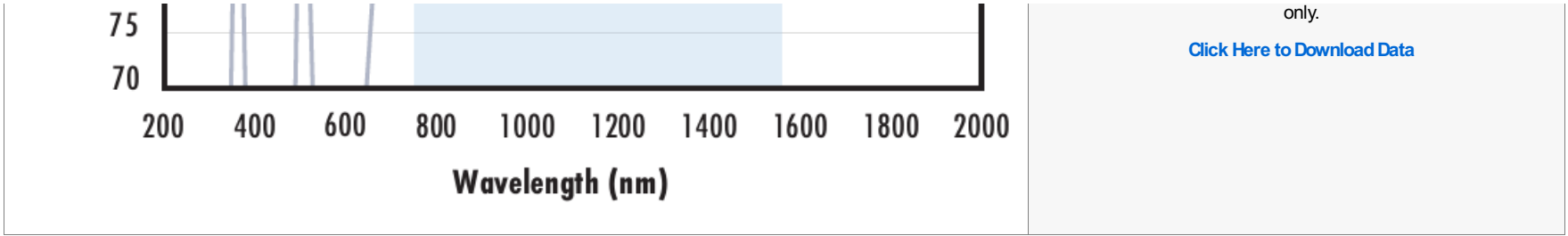
[Click Here to Download Data](#)

Fused Silica with MgF_2 Coating Typical Transmission

A partial line graph showing the typical transmission of fused silica with MgF_2 coating. The y-axis is labeled '100' at the top. The x-axis is partially visible, showing a range from 200 to 2200 nm. The graph area is mostly obscured by a light blue background.

	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\% \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 	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\% \text{ @ } 750 - 800\text{nm}$$R_{abs} \leq 1.0\% \text{ @ } 800 - 1550\text{nm}$$R_{avg} \leq 0.7\% \text{ @ } 750 - 1550\text{nm}$ Data outside this range is not guaranteed and is for reference



Beschichtungskurven

Kompatible Halterungen