

TECHSPEC®

λ/4-Quarzglasfenster, 25 mm Durchm., 5 mm Dicke, UV-beschichtet



TECHSPEC® λ/4 UVFused Silica Windows

Produkt **#72-365** **2 In Stock**

-

1

+

€157⁰⁰

+ WARENKORB

Mengenrabatte	
Stk. 1-5	€157,00 stückpreis
Stk. 6-25	€125,00 stückpreis
Stk. 26-49	€117,00 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):

Durchmesser (mm):

25.00 +0.00/-0.10	
	Dicke (mm):
5.00 ±0.10	
	Parallelität (Bogenminuten):
<1	
	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:
UV-AR (250-425nm)	
	Substrat: ☐
Fused Silica (Corning 7980)	
	Brechungsindex (n _d):
1.458	
	Oberflächenqualität:
40-20	
	Transmittierte Wellenfront, P-V:
λ/4	
	Abbe-Zahl (v _d):
67.8	
	Beschichtungsspezifikation:
R _{abs} ≤1.0% @ 250 - 425nm R _{avg} ≤0.75% @ 250 - 425nm R _{avg} ≤0.5% @ 370 - 420nm	
	Wellenlängenbereich (nm):
250 - 450	
	Zerstörschwelle, Referenz:
3 J/cm² @ 355nm, 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)	

Konformität mit Standards

	RoHS 2015:
Konform	
	Konformitätszertifikat:
Anzeigen	
	REACH 241:
Konform	

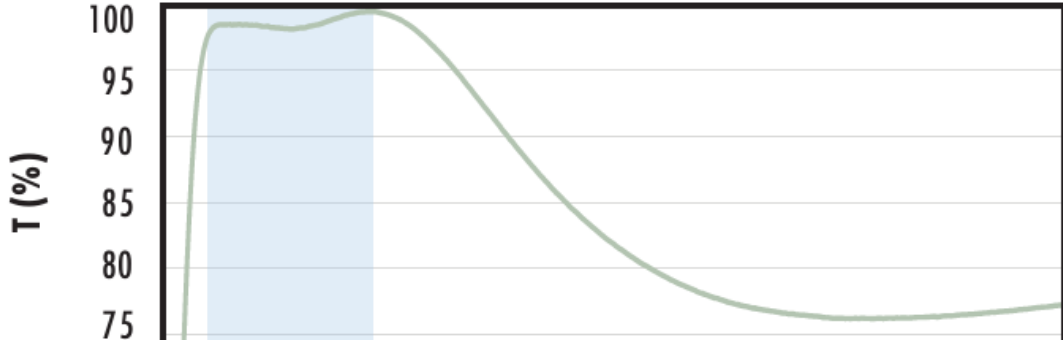
Produktdetails

- Verfügbar unbeschichtet sowie BBAR-beschichtet für UV, VIS und NIR
 - Ideal für Bildverarbeitungsanwendungen
 - Rund oder rechteckig mit Größen von 5 bis 200 mm
 - 1λ- oder λ/10-Fenster aus UV-Quarzglas sind ebenfalls verfügbar

TECHSPEC® λ/4-Fenster aus UV-Quarzglas haben eine Oberflächenqualität von 40-20 und einen transmittierten Wellenfrontfehler von λ/4. Dies macht sie ideal für Bildverarbeitungsanwendungen. Die Fenster bestehen aus UV-Quarzglassubstraten und bieten eine hohe Transmission vom ultravioletten über den sichtbaren bis zum nahinfraroten Bereich. Es sind breitbandige Antireflexionsbeschichtungen (BBAR) verfügbar, um Reflexionsverluste zu minimieren und die Transmission zu erhöhen. TECHSPEC® λ/4-Fenster aus UV-Quarzglas werden in optischen Bildgebungsanwendungen, in Laseranwendungen mit geringer oder mittlerer Leistung und als Schutzfenster für Anwendungen, die eine hohe UV-Transmission erfordern, eingesetzt.

Technische Informationen



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 - 450nm $R_{avg} \leq 1.5\%$ @ 250 - 700nm 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 - 700nm 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

Wavelength (nm) Fused Silica with YAG-BBAR Coating Typical Transmission <table border="1"><caption>Approximate data for Fused Silica with YAG-BBAR Coating</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><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></tbody></table>	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	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										
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Kundenspezifische Produkte

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.

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- Hochpräzise Oberflächenqualität und -ebenheit
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