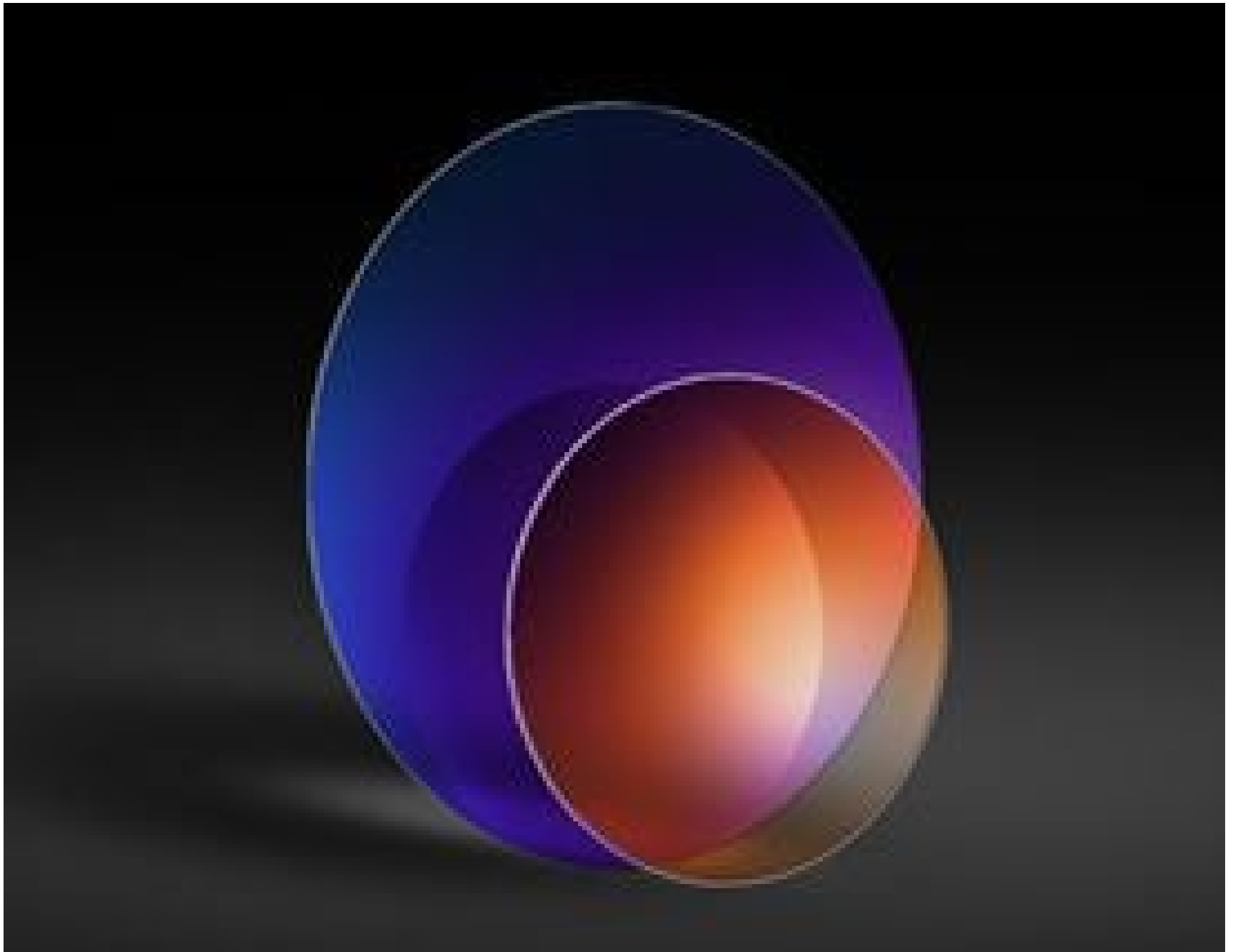


TECHSPEC® Ultradünnes Fenster aus Quarzglas, 20 mm Durchmesser, NIR-II-beschichtet



Produkt #75-471 **NEU** 9 In Stock

- 1 + €212^{.00}

+ WARENKORB

Mengenrabatte

Stk. 1-5	€212,00 stückpreis
Stk. 6+	€169,00 stückpreis
Need More?	Angebotsanfrage

ⓘ Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Protective Window **Typ:**

Physikalische und mechanische Eigenschaften

17.00 **Freie Apertur CA (mm):**

20.00 +0.00/-0.10 **Durchmesser (mm):**

0.20 ±0.025	Dicke (mm):
Protective as needed	Fase:
Fine Ground	Kanten:
<1	Parallelität (Bogensekunden):
0.16	Poisson-Zahl:
73	Elastizitätsmodul (GPa):
522.00	Knoop-Härte (kg/mm²):

Optische Eigenschaften

NIR II (750-1550nm)	Beschichtung:
Fused Silica (Corning 7980)	Substrat: <input type="checkbox"/>
1.458	Brechungsindex (n_d):
60-40	Oberflächenqualität:
λ/2	Transmittierte Wellenfront, P-V:
64.17	Abbe-Zahl (v_d):
Beschichtungsspezifikation:	
R _{abs} ≤1.5% @ 750 - 800nm	
R _{abs} ≤1.0% @ 800 - 1550nm	
R _{avg} ≤0.7% @ 750 - 1550nm	
750 - 1550	Wellenlängenbereich (nm):
Zerstörschwelle, Referenz: <input type="checkbox"/>	
8 J/cm ² @ 1064nm, 10ns	

Materialeigenschaften

2.2	Dichte (g/cm³):
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

Anzeigen	Konformitätszertifikat:
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Produktdetails

- Besonders dünne 0,20 mm Dicke
- UV-Quarzglassubstrat
- Sehr leicht

Die TECHSPEC® ultradünnen Fenster aus Quarzglas haben nur 1/5 der Dicke der standardmäßigen Quarzglasfenster, bieten aber die gleichen positiven Eigenschaften von Quarzglas, inklusive geringer thermischer Ausdehnung, hervorragender Resistenz gegenüber Chemikalien und hoher UV-Transmission. Anders als gewöhnliche Schutzgläser besitzen diese Fenster polierte Oberflächen, um einen einheitlichen transmittierten Wellenfrontfehler zu ermöglichen. Das extrem dünne Design macht die Fenster ideal für gewichts- und platzkritische Anwendungen, vor allem solche, die eine breitbandige Transmission vom UV bis zum NIR erfordern. Die TECHSPEC® ultradünnen Fenster aus Quarzglas sind ideal für tragbare medizinische Geräte, andere portable technische Geräte sowie tragbare UV-Lichter.

Bitte beachten Sie: Die ultradünnen Fenster sind sehr zerbrechlich. Behandeln Sie die Fenster sehr vorsichtig.

Technische Informationen



FUSED SILICA

**Uncoated Fused Silica
Typical Transmission**



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

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**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.

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**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.

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**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.

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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.

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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.

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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.

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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.
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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.
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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 only.
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