

TECHSPEC®

λ/10-Quarzglasfenster, 100 mm D., 5 mm Dicke, UV-VIS-beschichtet



Produkt **#22-064** **7 In Stock**

-

1

+

€920<sup>.00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-5      | €920,00 stückpreis              |
| Stk. 6-25     | €735,00 stückpreis              |
| Stk. 26-49    | €690,00 stückpreis              |
| Need More?    | <a href="#">Angebotsanfrage</a> |

! Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Protective Window

Typ:

Physikalische und mechanische Eigenschaften

Freie Apertur CA (mm):

90.00

Durchmesser (mm):

100.00 +0.00/-0.20

|                      |                               |
|----------------------|-------------------------------|
| 5.00 ±0.10           | Dicke (mm):                   |
| Protective as needed | Fase:                         |
| 90                   | Freie Apertur (%):            |
| Fine Ground          | Kanten:                       |
| <10                  | Parallelität (Bogensekunden): |
| 0.16                 | Poisson-Zahl:                 |
| 73                   | Elastizitätsmodul (GPa):      |
| 522.00               | Knoop-Härte (kg/mm²):         |

Optische Eigenschaften

|                                                                              |                                                        |
|------------------------------------------------------------------------------|--------------------------------------------------------|
| UV-VIS (250-700nm)                                                           | Beschichtung:                                          |
| <a href="#">Fused Silica</a> (Corning 7980)                                  | Substrat: <input type="checkbox"/>                     |
| 1.458                                                                        | Brechungsindex (n <sub>d</sub> ):                      |
| 40-20                                                                        | Oberflächenqualität:                                   |
| <i>N</i> /10 (per inch within clear aperture)                                | Transmittierte Wellenfront, P-V:                       |
| 67.8                                                                         | Abbe-Zahl (v <sub>d</sub> ):                           |
| R <sub>abs</sub> ≤1.0% @ 350 - 450nm<br>R <sub>avg</sub> ≤1.5% @ 250 - 700nm | Beschichtungsspezifikation:                            |
| 250 - 700                                                                    | Wellenlängenbereich (nm):                              |
| 3 J/cm² @ 355nm, 10ns<br>5 J/cm² @ 532nm, 10ns                               | Zerstörschwelle, laut Design: <input type="checkbox"/> |

Materialeigenschaften

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

Konformität mit Standards

|                          |                         |
|--------------------------|-------------------------|
| <a href="#">Konform</a>  | RoHS 2015:              |
| <a href="#">Anzeigen</a> | Konformitätszertifikat: |
| <a href="#">Konform</a>  | 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

- Fenster mit UV-VIS- und UV-Antireflexionsbeschichtung lieferbar
- Transmittierte Wellenfrontverzerrung von *N*/10
- Rund oder quadratisch mit Größen zwischen 2 und 150 mm
- [1λ](#)- oder [λ/4](#)-Fenster aus UV-Quarzglas ebenfalls erhältlich

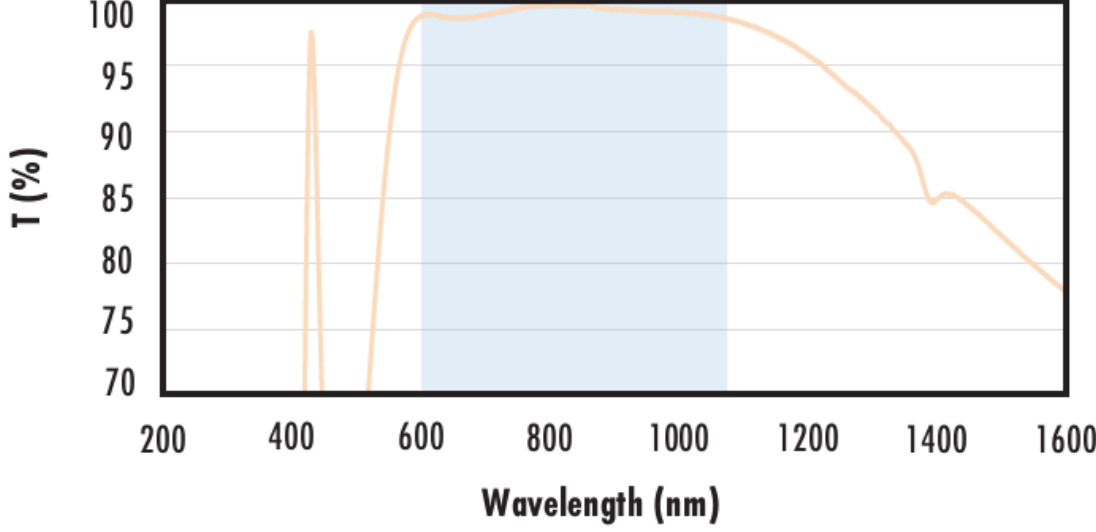
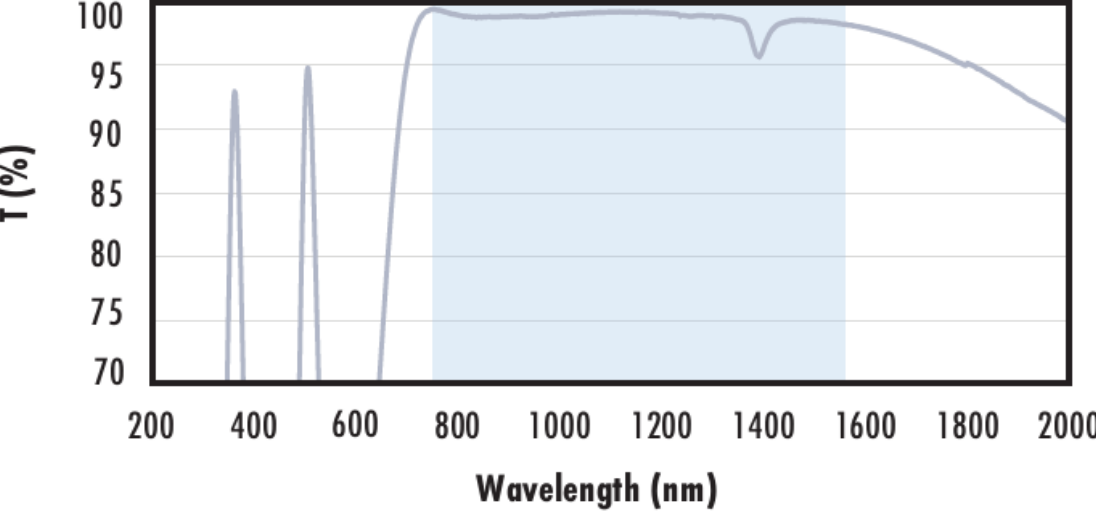
Die TECHSPEC® X10-Fenster aus UV-Quarzglas zeichnen sich durch hohe Parallelität und eine für Laser geeignete Oberflächenqualität aus. Außerdem begrenzen die Fenster die Verzerrung der übertragenen Wellenfront auf  $\lambda/10$ . Durch die hervorragende Transmission und die ausgezeichneten thermischen Eigenschaften sowie die engen Fertigungstoleranzen eignen sich die Fenster ideal für anspruchsvollste Anwendungen. TECHSPEC® X10-Fenster aus UV-Quarzglas sind rund oder quadratisch in den Größen 2 mm bis 150 mm verfügbar. Die Fenster werden unbeschichtet oder mit Antireflexionsbeschichtungen für den UV-Bereich oder sichtbaren Bereich angeboten.

Technische Informationen



| FUSED SILICA                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><h3>Uncoated Fused Silica<br/>Typical Transmission</h3><p>T (%)</p><p>Wavelength (nm)</p></div>                     | <p>Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                              |
| <div><h3>Fused Silica with MgF<sub>2</sub> Coating<br/>Typical Transmission</h3><p>T (%)</p><p>Wavelength (nm)</p></div> | <p>Typical transmission of a 3mm thick fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                 |
| <div><h3>Fused Silica with UV-AR Coating<br/>Typical Transmission</h3><p>T (%)</p><p>Wavelength (nm)</p></div>           | <p>Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 1.0\% @ 250 - 425\text{nm}</math><br/><math>R_{avg} \leq 0.75\% @ 250 - 425\text{nm}</math><br/><math>R_{avg} \leq 0.5\% @ 370 - 420\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>200100000010001200</div><div>Wavelength (nm)</div><div><div>Fused Silica with UV-VIS Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div></div><div>Wavelength (nm)</div></div></div></div></div>                                                   | <div><p>Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><div><div><div><math>R_{abs} \leq 1.0\%</math> @ 350 - 450nm</div><div><math>R_{avg} \leq 1.5\%</math> @ 250 - 700nm</div></div></div><p>Data outside this range is not guaranteed and is for reference only.</p><div><a href="#">Click Here to Download Data</a></div></div>                                                         |
| <div><div>200100000010001200</div><div>Wavelength (nm)</div><div><div><div>Fused Silica with VIS-EXT Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div></div><div>Wavelength (nm)</div></div></div></div></div></div>                                       | <div><p>Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><div><div><math>R_{avg} \leq 0.5\%</math> @ 350 - 700nm</div></div><p>Data outside this range is not guaranteed and is for reference only.</p><div><a href="#">Click Here to Download Data</a></div></div>                                                                                                                           |
| <div><div>20010000001000120014001600</div><div>Wavelength (nm)</div><div><div><div>Fused Silica with VIS-NIR Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div><div>1400</div><div>1600</div></div><div>Wavelength (nm)</div></div></div></div></div></div> | <div><p>Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><div><div><div><math>R_{abs} \leq 0.25\%</math> @ 880nm</div><div><math>R_{avg} \leq 1.25\%</math> @ 400 - 870nm</div><div><math>R_{avg} \leq 1.25\%</math> @ 890 - 1000nm</div></div></div><p>Data outside this range is not guaranteed and is for reference only.</p><div><a href="#">Click Here to Download Data</a></div></div> |
| <div><div>200100000010001200</div><div>Wavelength (nm)</div><div><div><div>Fused Silica with VIS 0° Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div></div><div>Wavelength (nm)</div></div></div></div></div></div>                                        | <div><p>Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><div><div><math>R_{avg} \leq 0.4\%</math> @ 425 - 675nm</div></div><p>Data outside this range is not guaranteed and is for reference only.</p><div><a href="#">Click Here to Download Data</a></div></div>                                                                                                                            |

|                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div><div>Fused Silica with YAG-BBAR Coating</div><div>Typical Transmission</div><div></div></div></div> | <div><p>Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><div><div><math>R_{abs} \leq 0.25\%</math> @ 532nm</div><div><math>R_{abs} \leq 0.25\%</math> @ 1064nm</div><div><math>R_{avg} \leq 1.0\%</math> @ 500 - 1100nm</div></div><p>Data outside this range is not guaranteed and is for reference only.</p><p><a href="#">Click Here to Download Data</a></p></div>           |
| <div><div><div>Fused Silica with NIR I Coating</div><div>Typical Transmission</div><div></div></div></div>   | <div><p>Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><div><div><math>R_{avg} \leq 0.5\%</math> @ 600 - 1050nm</div></div><p>Data outside this range is not guaranteed and is for reference only.</p><p><a href="#">Click Here to Download Data</a></p></div>                                                                                                                   |
| <div><div><div>Fused Silica with NIR II Coating</div><div>Typical Transmission</div><div></div></div></div> | <div><p>Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><div><div><math>R_{abs} \leq 1.5\%</math> @ 750 - 800nm</div><div><math>R_{abs} \leq 1.0\%</math> @ 800 - 1550nm</div><div><math>R_{avg} \leq 0.7\%</math> @ 750 - 1550nm</div></div><p>Data outside this range is not guaranteed and is for reference only.</p><p><a href="#">Click Here to Download Data</a></p></div> |

Kompatible Halterungen