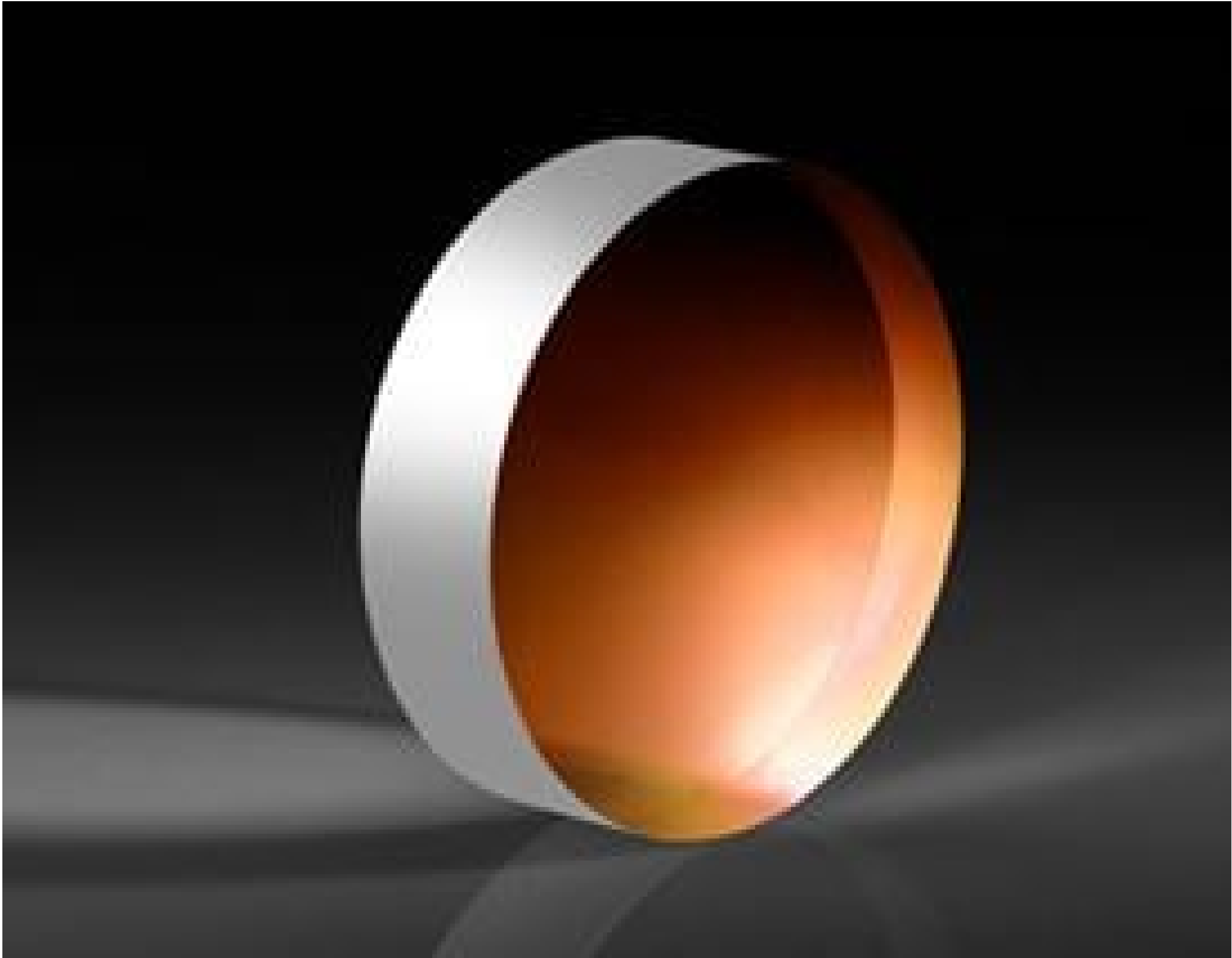


TECHSPEC®

λ/10-Quarzglasfenster, 50 mm D., 3 mm Dicke, NIR-I-beschichtet



Produkt **#36-947** **5 In Stock**

-

1

+

€317<sup>.00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-5      | €317,00 stückpreis              |
| Stk. 6-25     | €252,00 stückpreis              |
| Stk. 26-49    | €237,00 stückpreis              |
| Need More?    | <a href="#">Angebotsanfrage</a> |

!

 Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Protective Window

Typ:

Physikalische und mechanische Eigenschaften

40.00

Freie Apertur CA (mm):

50.00 +0.00/-0.20

Durchmesser (mm):

|                      |                               |
|----------------------|-------------------------------|
| 3.00 ±0.10           | Dicke (mm):                   |
| +0.00/-0.20          | Toleranz Größe (mm):          |
| Protective as needed | Fase:                         |
| 80                   | Freie Apertur (%):            |
| Fine Ground          | Kanten:                       |
| <5                   | Parallelität (Bogensekunden): |
| 0.16                 | Poisson-Zahl:                 |
| 73                   | Elastizitätsmodul (GPa):      |
| 522.00               | Knoop-Härte (kg/mm²):         |

Optische Eigenschaften

|                                             |                                   |
|---------------------------------------------|-----------------------------------|
| NIR I (600-1050nm)                          | Beschichtung:                     |
| <a href="#">Fused Silica</a> (Corning 7980) | Substrat: □                       |
| 1.458                                       | Brechungsindex (n <sub>d</sub> ): |
| 20-10                                       | Oberflächenqualität:              |
| <i>N</i> 10                                 | Transmittierte Wellenfront, P-V:  |
| 67.8                                        | Abbe-Zahl (v <sub>d</sub> ):      |
| R <sub>avg</sub> ≤0.5% @ 600 - 1050nm       | Beschichtungsspezifikation:       |
| 600 - 1050                                  | Wellenlängenbereich (nm):         |
| 7 J/cm² @ 1064nm, 10ns                      | Zerstörschwelle, Referenz:        |

Materialeigenschaften

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

Konformität mit Standards

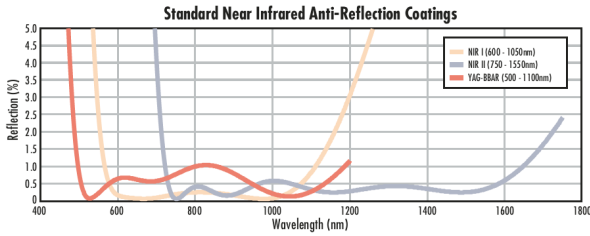
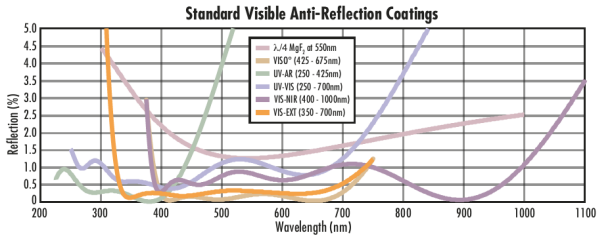
|                          |                         |
|--------------------------|-------------------------|
| <a href="#">Konform</a>  | RoHS 2015:              |
| <a href="#">Anzeigen</a> | Konformitätszertifikat: |
| <a href="#">Konform</a>  | Reach 235:              |

## 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 [N/4](#)-Fenster aus UV-Quarzglas ebenfalls erhältlich

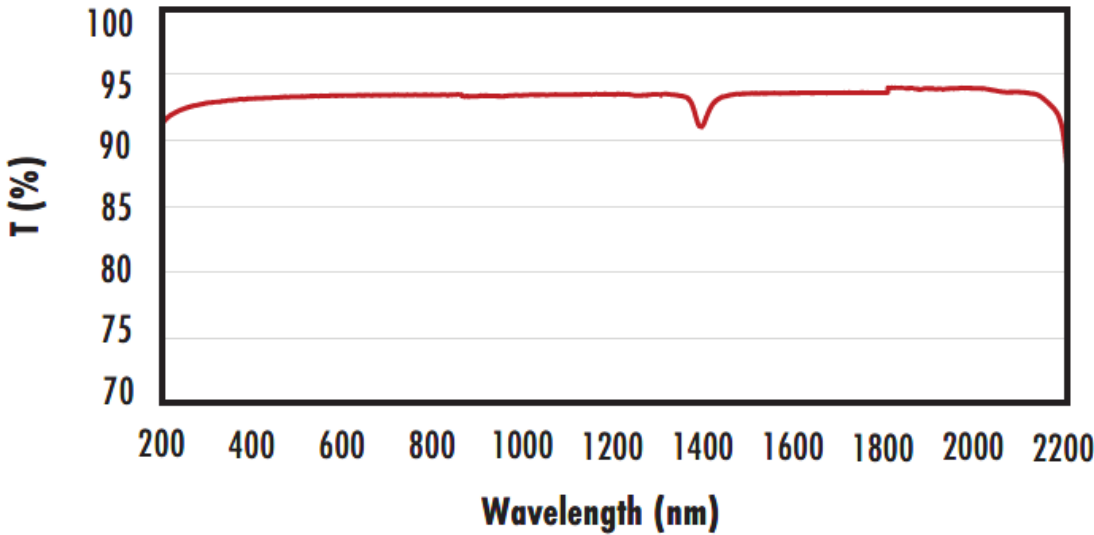
Die TECHSPEC® *N*10-Fenster aus UV-Quarzglas zeichnen sich durch hohe Parallelität und eine für Laser geeignete Oberflächenqualität aus. Außerdem begrenzen die Fenster die Verzerrung der übertragenen Wellenfront auf *N*10. Durch die hervorragende Transmission und die ausgezeichneten thermischen Eigenschaften sowie die engen Fertigungstoleranzen eignen sich die Fenster ideal für anspruchsvollste Anwendungen. TECHSPEC® *N*10-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

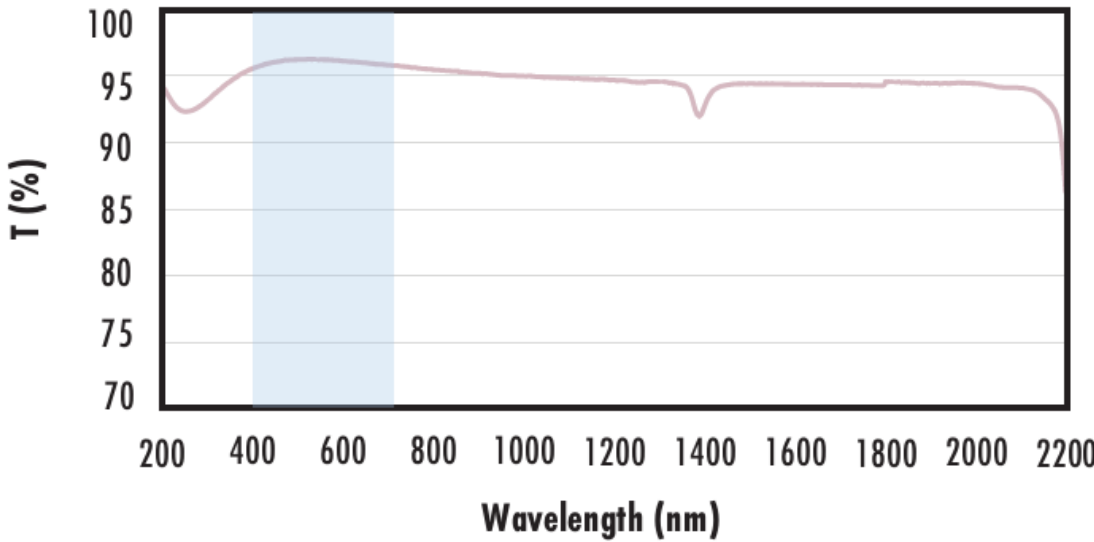
Uncoated Fused Silica  
Typical Transmission



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

[Click Here to Download Data](#)

Fused Silica with MgF<sub>2</sub> Coating  
Typical Transmission



Typical transmission of a 3mm thick fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.

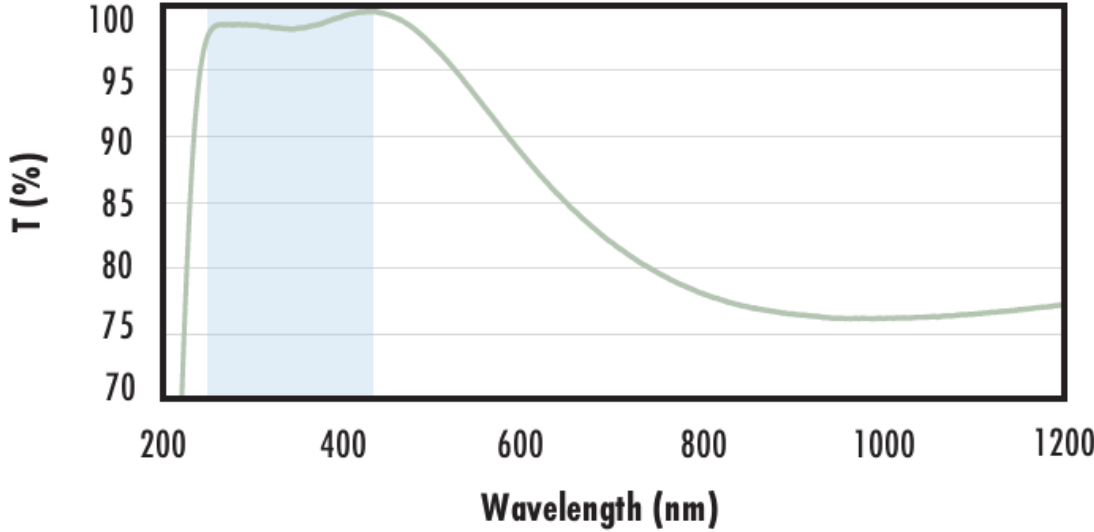
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 1.75\% \text{ @ } 400 - 700\text{nm (N-BK7)}$$

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:

$$R_{abs} \leq 1.0\% \text{ @ } 250 - 425\text{nm}$$

$$R_{avg} \leq 0.75\% \text{ @ } 250 - 425\text{nm}$$

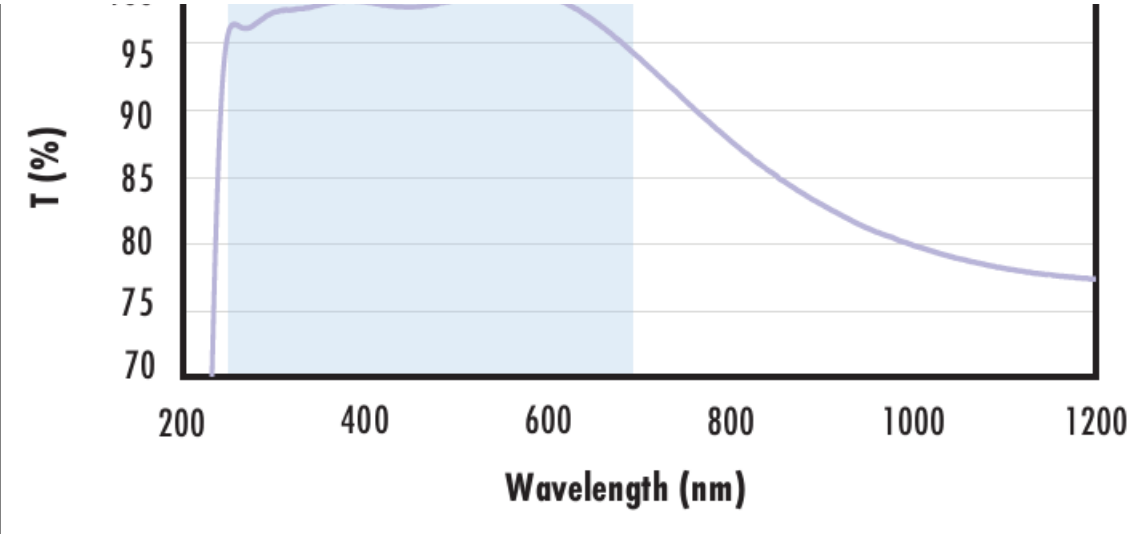
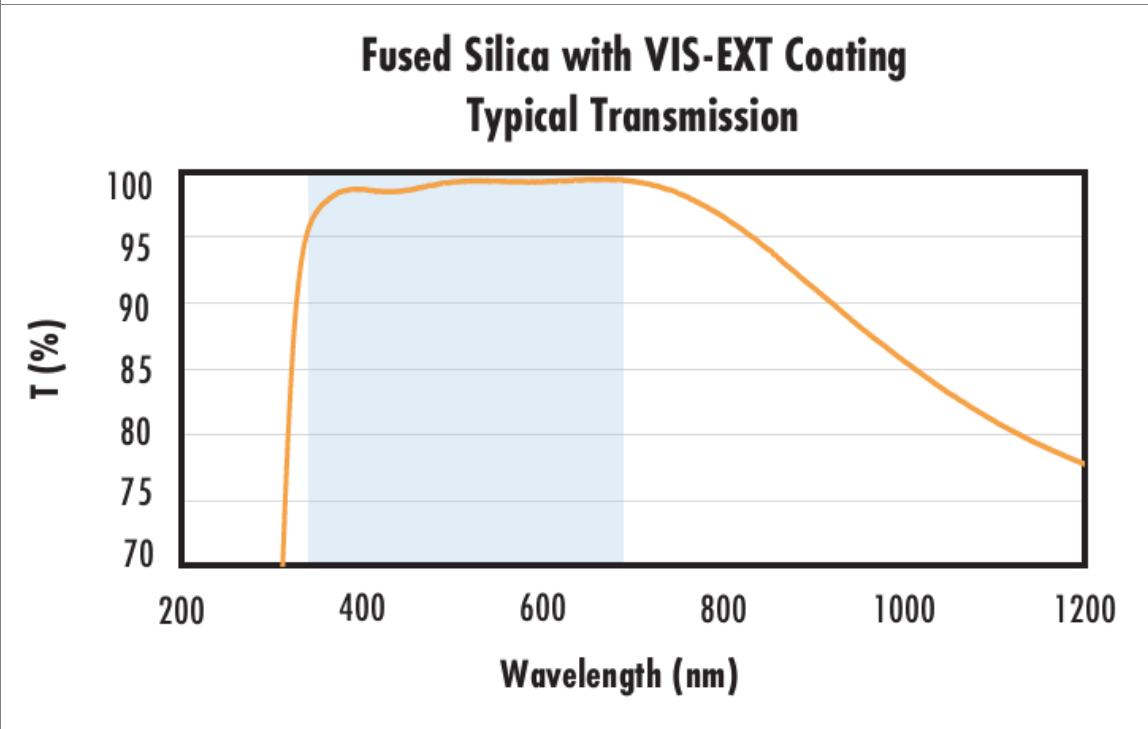
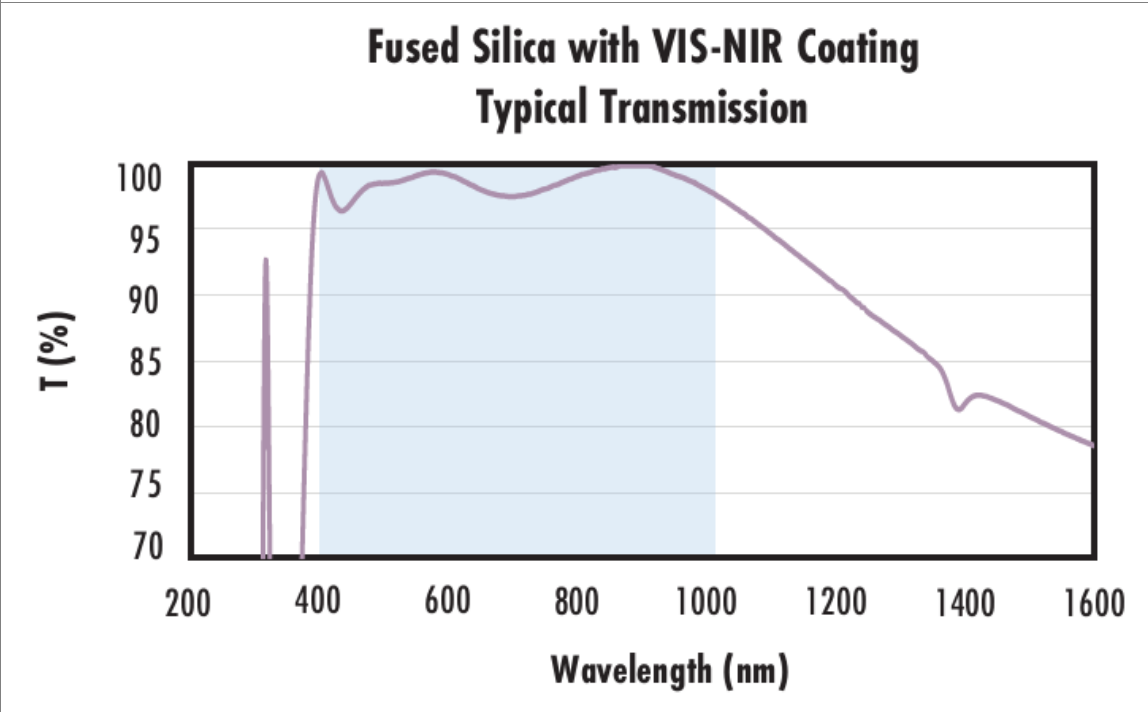
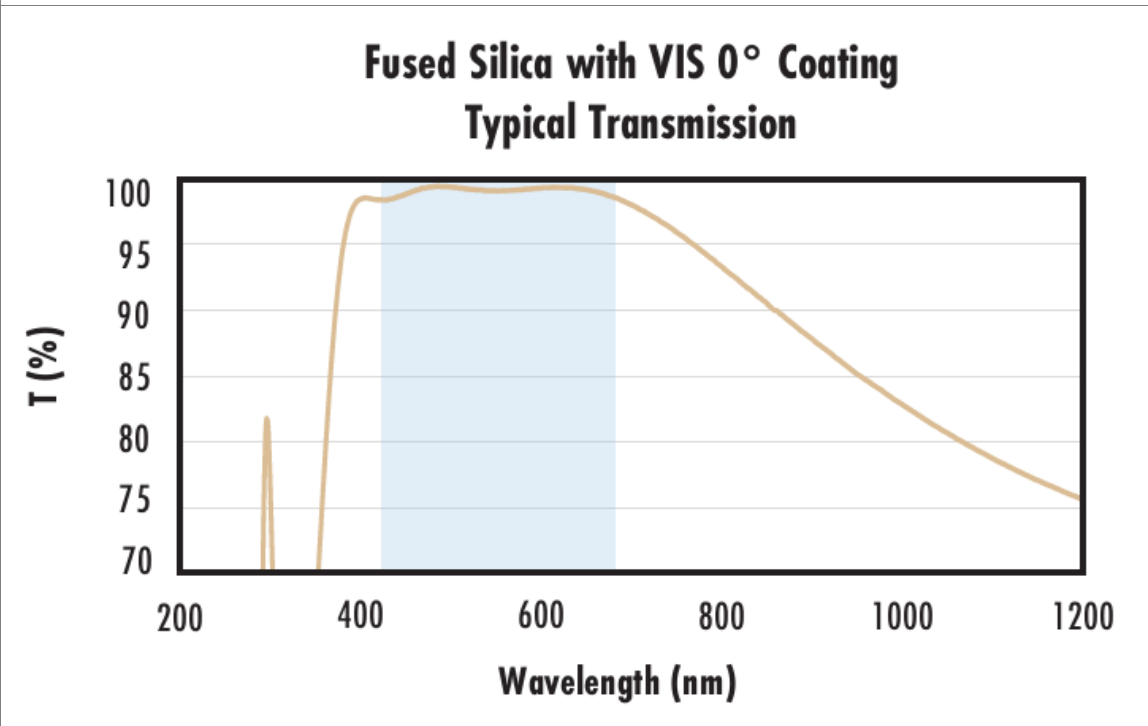
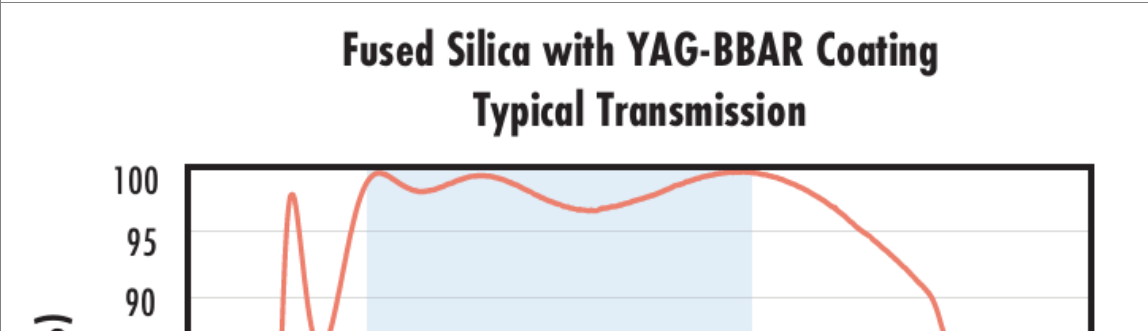
$$R_{avg} \leq 0.5\% \text{ @ } 370 - 420\text{nm}$$

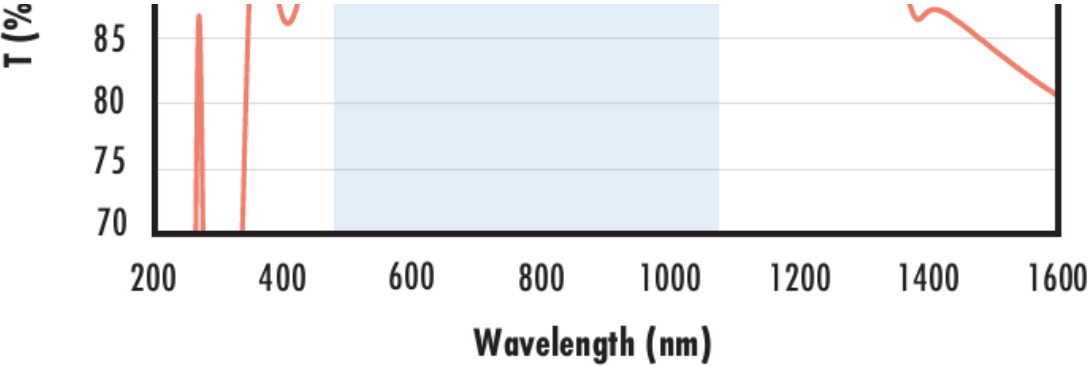
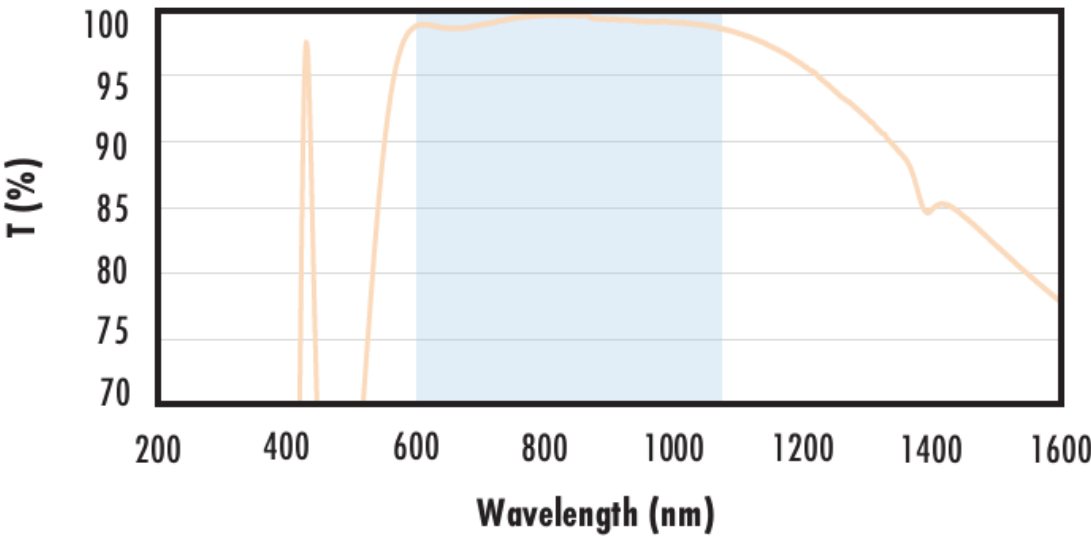
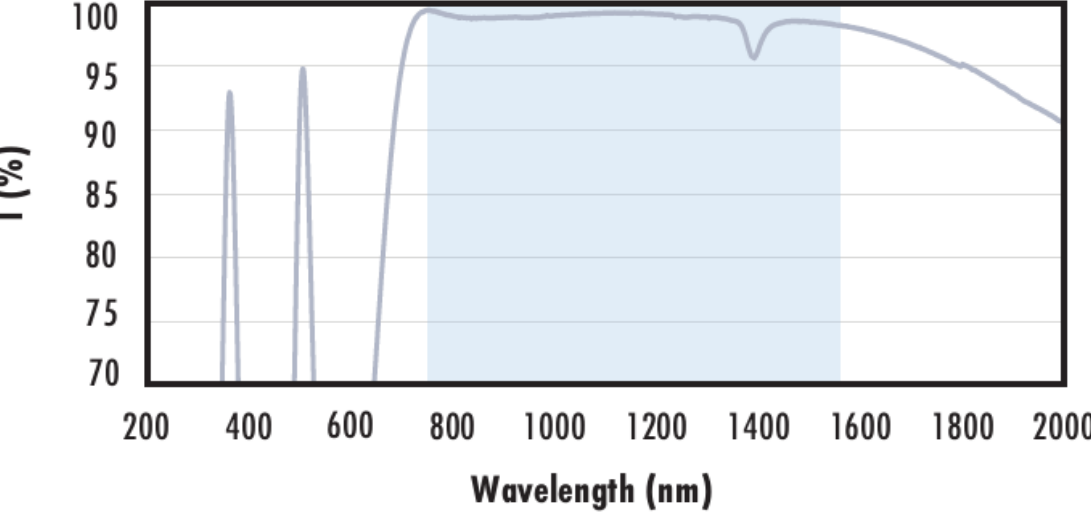
Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

Fused Silica with UV-VIS Coating  
Typical Transmission



|                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                      | <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> <p><math>R_{abs} \leq 1.0\%</math> @ 350 - 450nm<br/><math>R_{avg} \leq 1.5\%</math> @ 250 - 700nm</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>                                                   |
| <p><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>    | <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> <p><math>R_{avg} \leq 0.5\%</math> @ 350 - 700nm</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>                                                                                                    |
| <p><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>   | <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> <p><math>R_{abs} \leq 0.25\%</math> @ 880nm<br/><math>R_{avg} \leq 1.25\%</math> @ 400 - 870nm<br/><math>R_{avg} \leq 1.25\%</math> @ 890 - 1000nm</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> |
| <p><b>Fused Silica with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>    | <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> <p><math>R_{avg} \leq 0.4\%</math> @ 425 - 675nm</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>                                                                                                     |
| <p><b>Fused Silica with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <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> <p><math>R_{avg} \leq 0.5\%</math> @ 500 - 1100nm</p>                                                                                                                                                                                                                                |

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

## 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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- Kundenspezifische Abmessungen, Materialien und mehr
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## Kompatible Halterungen