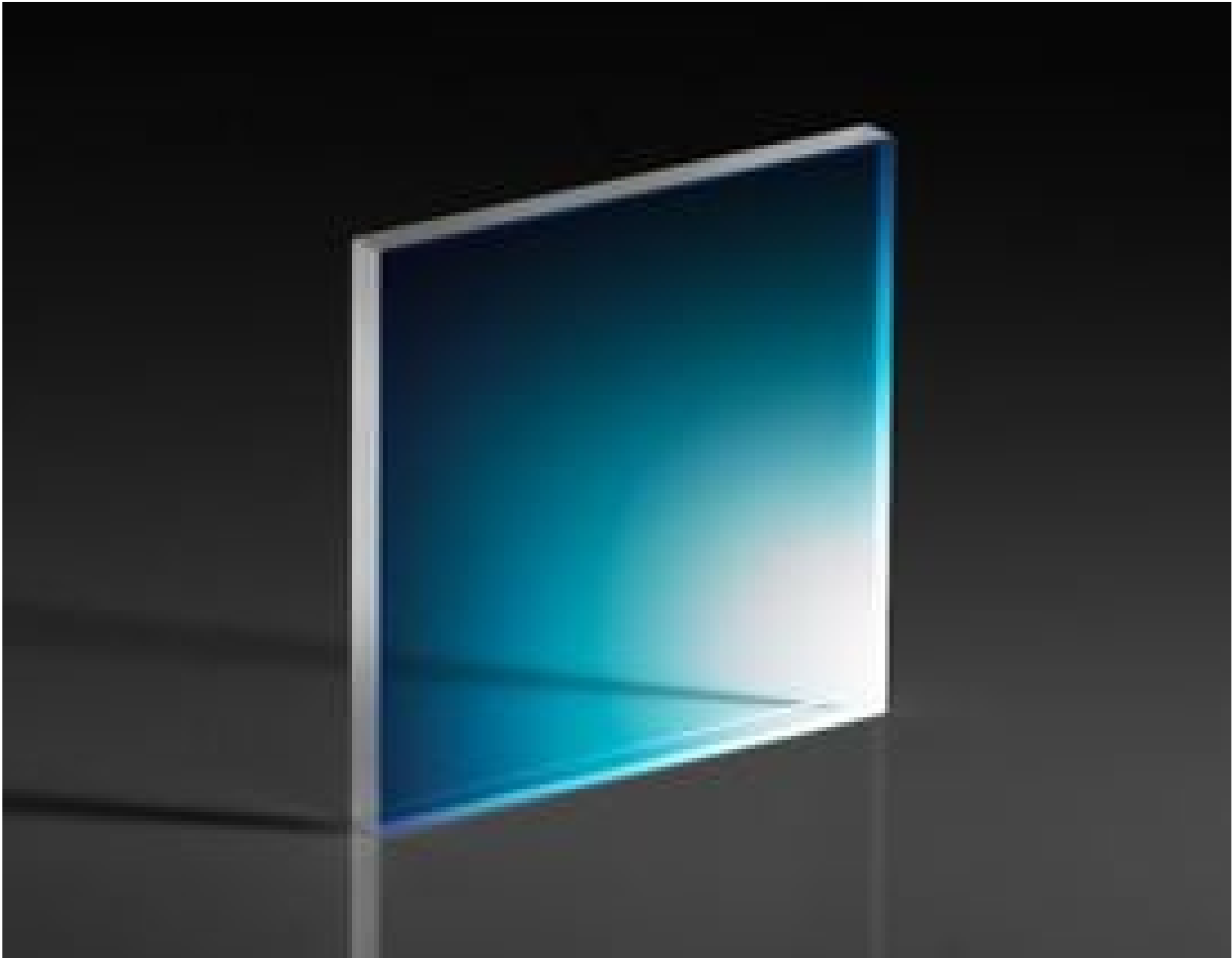


TECHSPEC<sup>®</sup> λ/10-Quarzglasfenster, 12,5 mm quadratisch, 1,5 mm Dicke, NIR-II-beschichtet



Produkt **#24-300** **2 In Stock**

-

1

+

€146<sup>,26</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-5      | €146,26 stückpreis              |
| Stk. 6-25     | €116,91 stückpreis              |
| Stk. 26-49    | €109,70 stückpreis              |
| Need More?    | <a href="#">Angebotsanfrage</a> |

ⓘ

 Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

SPEZIFIKATIONEN

Produktdetails

Protective Window

Typ:

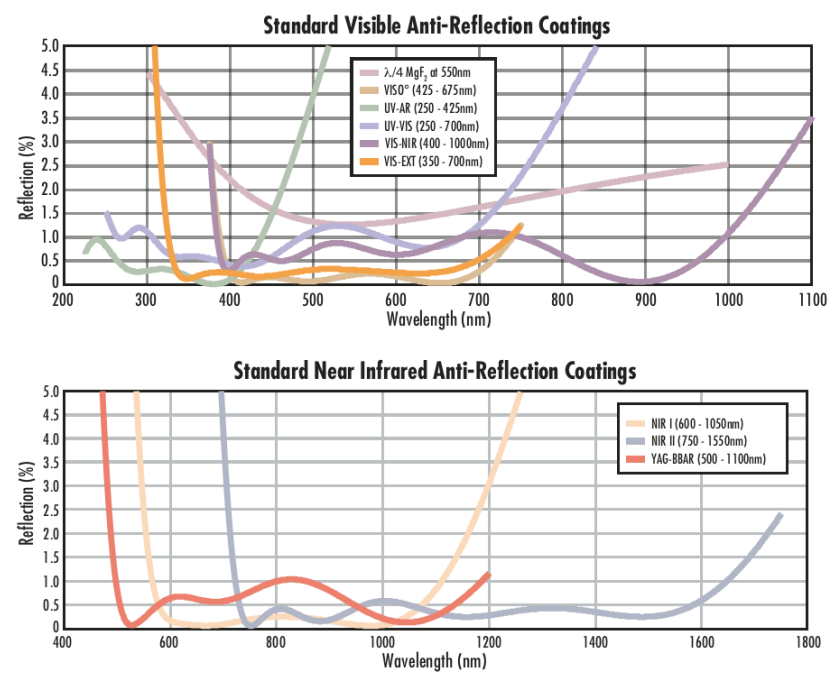
| Physikalische und mechanische Eigenschaften                                                                                                           |                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Protective as needed                                                                                                                                  | Fase:                             |
| 90                                                                                                                                                    | Freie Apertur (%):                |
| 11.25 x 11.25                                                                                                                                         | Freie Apertur CA (mm):            |
| 12.50 x 12.50 +0.00/-0.20                                                                                                                             | Größe (mm):                       |
| 1.50 ±0.10                                                                                                                                            | Dicke (mm):                       |
| Fine Ground                                                                                                                                           | Kanten:                           |
| 522.00                                                                                                                                                | Knoop-Härte (kg/mm²):             |
| <5                                                                                                                                                    | Parallelität (Bogensekunden):     |
| 0.16                                                                                                                                                  | Poisson-Zahl:                     |
| 73                                                                                                                                                    | Elastizitätsmodul (GPa):          |
| Optische Eigenschaften                                                                                                                                |                                   |
| 67.8                                                                                                                                                  | Abbe-Zahl (v <sub>d</sub> ):      |
| NIR II (750-1550nm)                                                                                                                                   | Beschichtung:                     |
| Beschichtungsspezifikation:<br>R <sub>abs</sub> ≤1.5% @ 750 - 800nm<br>R <sub>abs</sub> ≤1.0% @ 800 - 1550nm<br>R <sub>avg</sub> ≤0.7% @ 750 - 1550nm |                                   |
| 1.458                                                                                                                                                 | Brechungsindex (n <sub>d</sub> ): |
| <a href="#">Fused Silica</a> Coming 7980                                                                                                              | Substrat:                         |
| 20-10                                                                                                                                                 | Oberflächenqualität:              |
| λ/10                                                                                                                                                  | Transmittierte Wellenfront, P-V:  |
| 750 - 1550                                                                                                                                            | Wellenlängenbereich (nm):         |
| Zerstörschwelle, laut Design: <input type="checkbox"/><br>8 J/cm² @ 1064nm, 10ns                                                                      |                                   |
| Materialeigenschaften                                                                                                                                 |                                   |
| 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)                   |                                   |
| 2.20                                                                                                                                                  | Dichte (g/cm³):                   |
| Konformität mit Standards                                                                                                                             |                                   |
| <a href="#">Konform</a>                                                                                                                               | RoHS 2015:                        |
| <a href="#">Anzeigen</a>                                                                                                                              | Konformitätszertifikat:           |
| <a href="#">Konform</a>                                                                                                                               | Reach 235:                        |

## PRODUKTDDETAILS

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

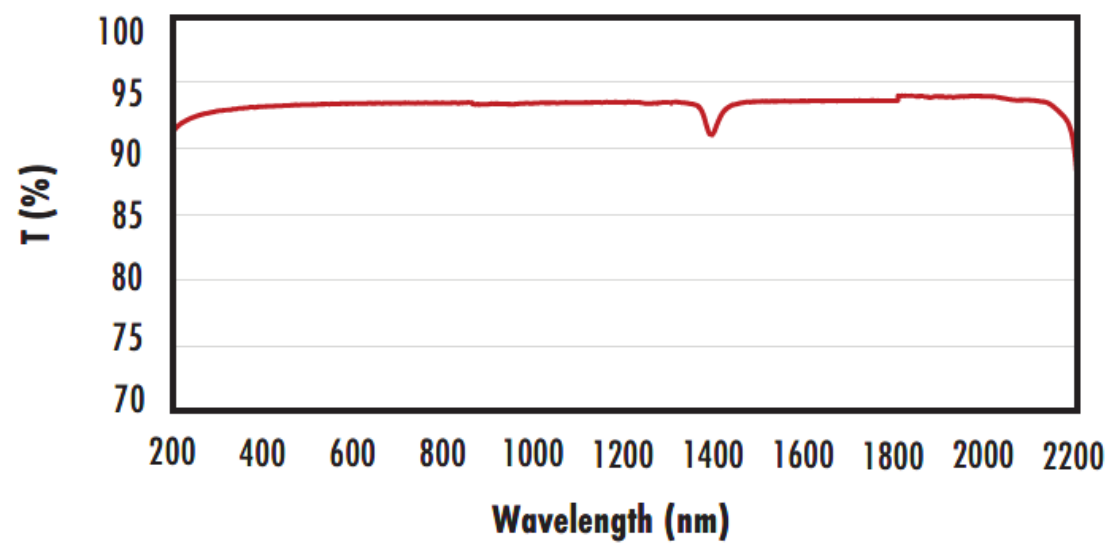
Die TECHSPEC® λ/10-Fenster aus UV-Quarzglas zeichnen sich durch hohe Parallelität und eine für Laser geeignete Oberflächenqualität aus. Außerdem begrenzen die Fenster die Verzerrung der übertragenen Wellenfront auf λ/10. Durch die hervorragende Transmission und die ausgezeichneten thermischen Eigenschaften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

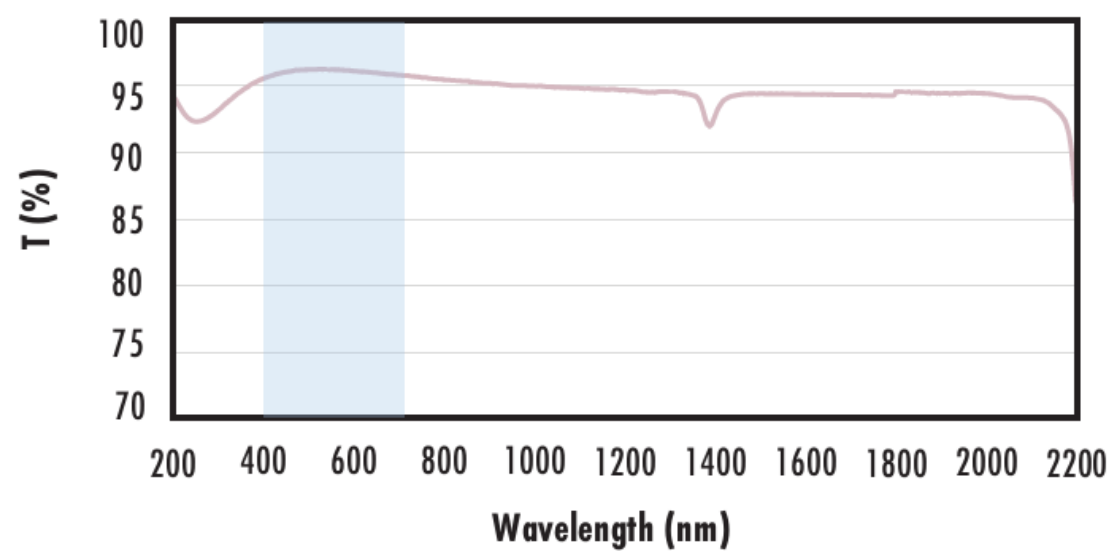
Uncoated Fused Silica  
Typical Transmission



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.

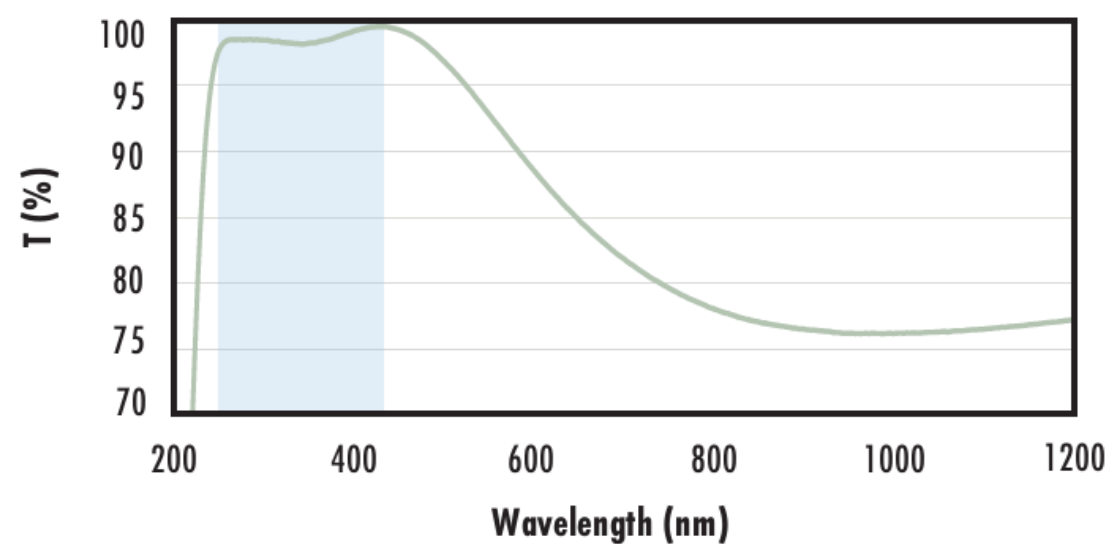
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

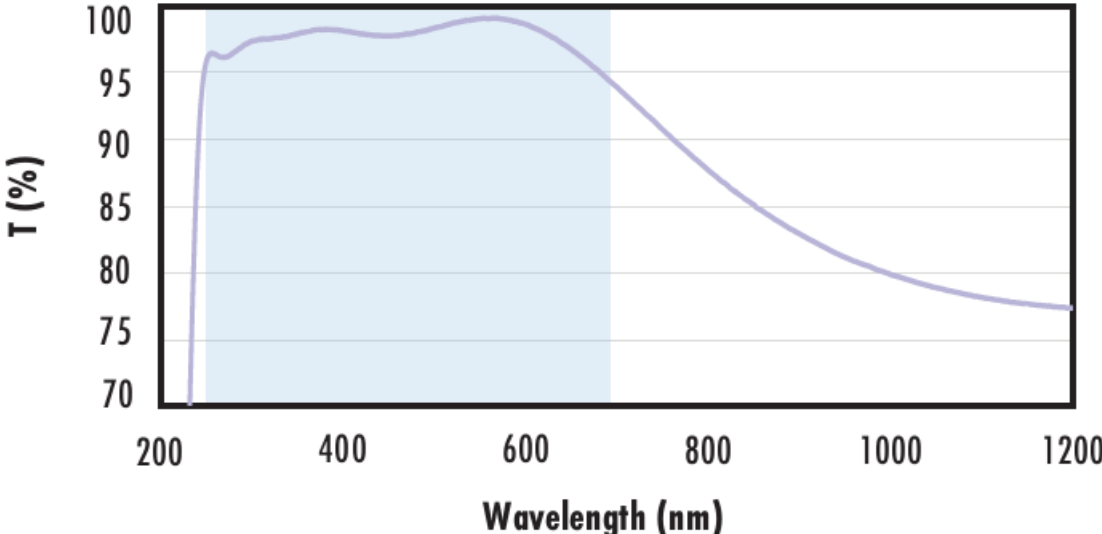
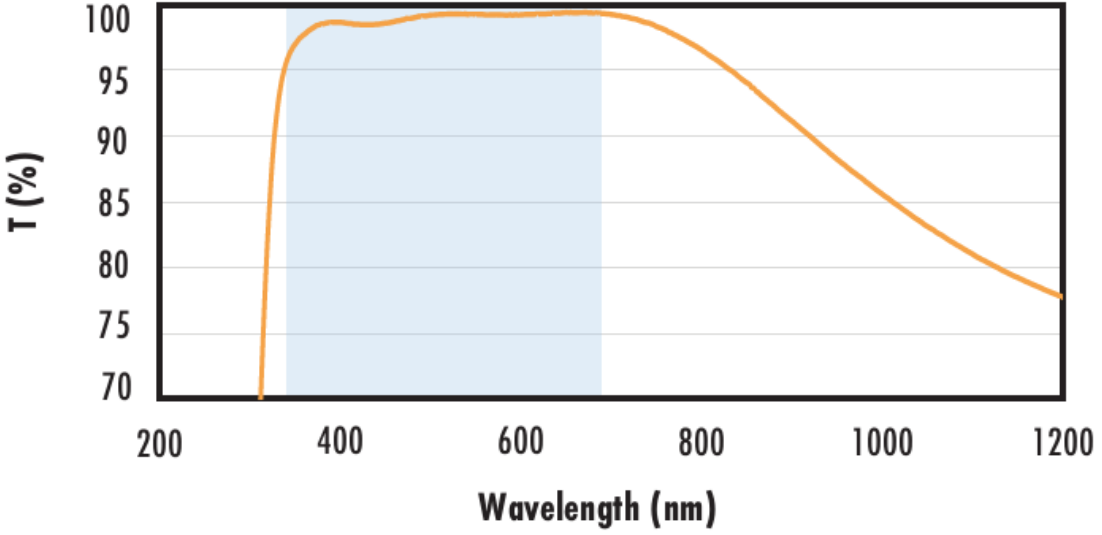
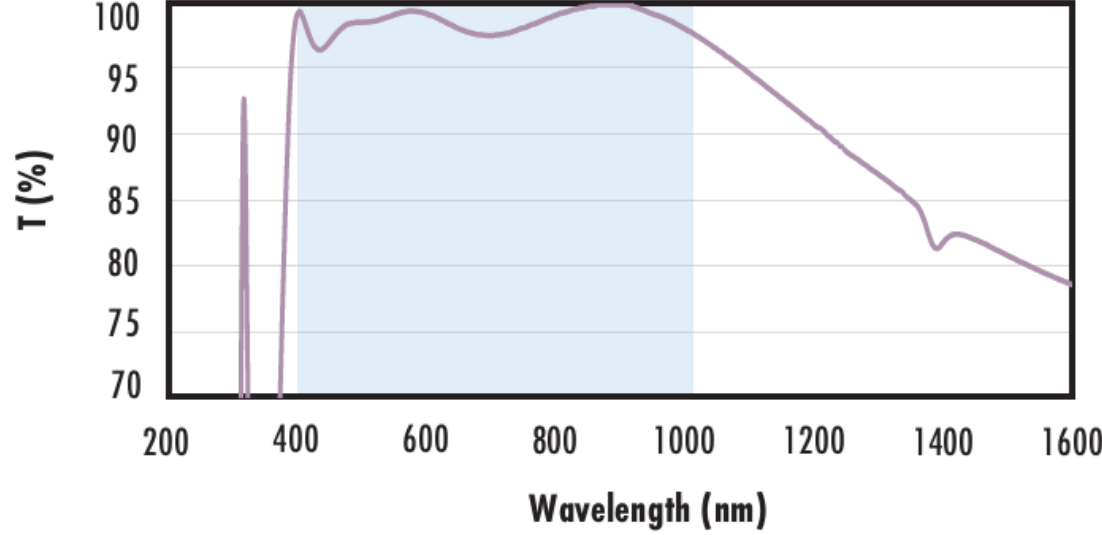
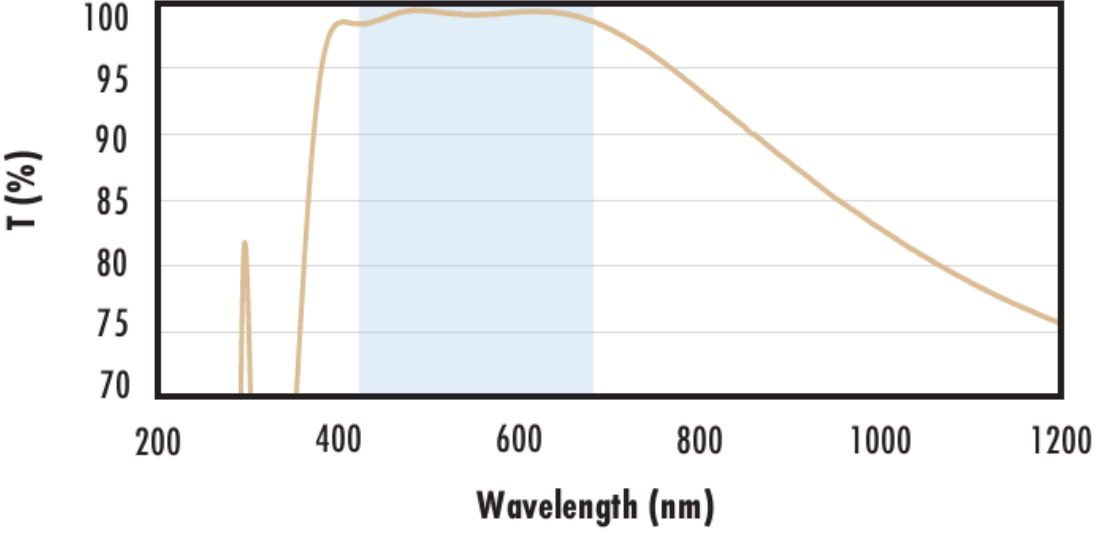
$R_{abs} \leq 1.0\% @ 250 - 425\text{nm}$

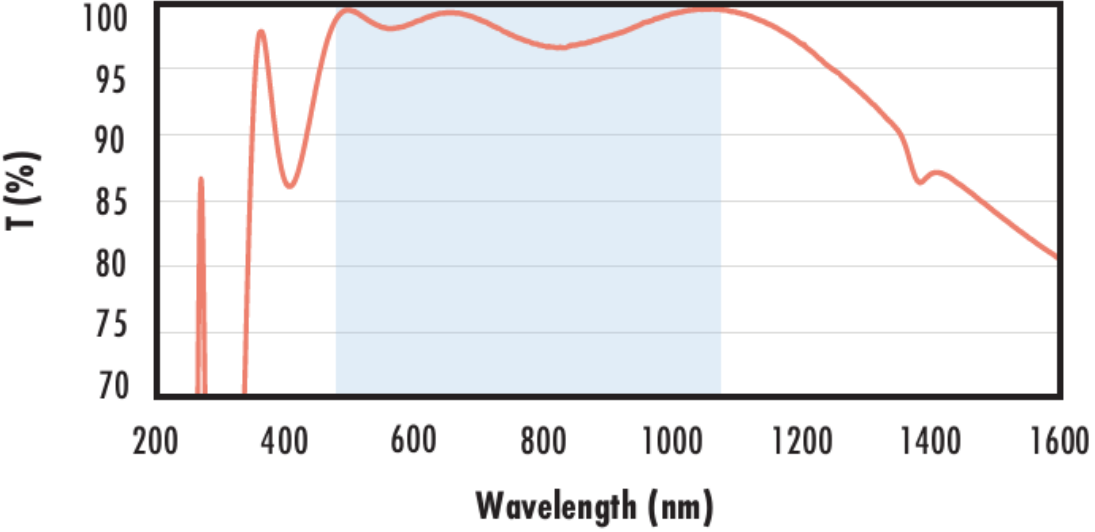
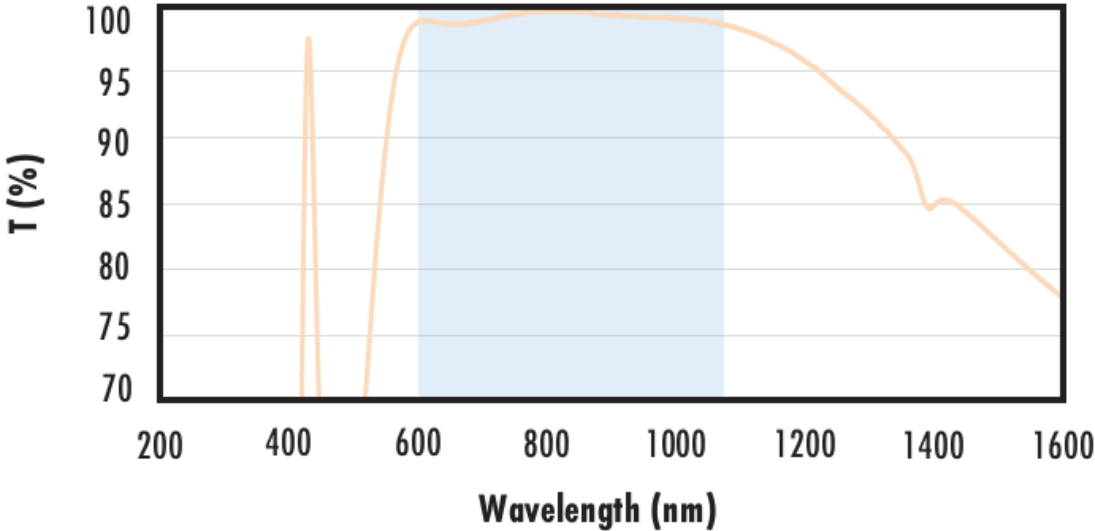
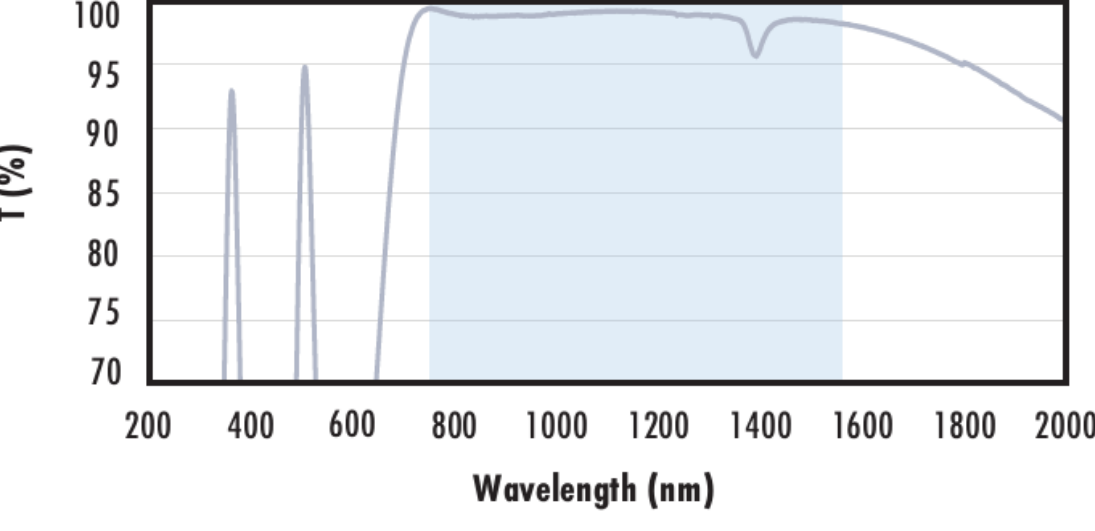
$R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$

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

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

[Click Here to Download Data](#)

|                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div><div>Fused Silica with UV-VIS Coating</div><div>Typical Transmission</div></div></div>    | <div><div>Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) 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 1.0\%</math> @ 350 - 450nm</div><div><math>R_{avg} \leq 1.5\%</math> @ 250 - 700nm</div></div></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><div>Fused Silica with VIS-EXT Coating</div><div>Typical Transmission</div></div></div>  | <div><div>Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) 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\%</math> @ 350 - 700nm</div></div></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><div>Fused Silica with VIS-NIR Coating</div><div>Typical Transmission</div></div></div> | <div><div>Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) 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 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><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><div>Fused Silica with VIS 0° Coating</div><div>Typical Transmission</div></div></div>  | <div><div>Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) 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 0.4\%</math> @ 425 - 675nm</div></div></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><div>Fused Silica with YAG-BBAR Coating</div><div>Typical Transmission</div></div></div>                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><h3>Typical Transmission</h3></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><p><math>R_{abs} \leq 0.25\% @ 532nm</math><br/><math>R_{abs} \leq 0.25\% @ 1064nm</math><br/><math>R_{avg} \leq 1.0\% @ 500 - 1100nm</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><h3>Fused Silica with NIR I Coating<br/>Typical Transmission</h3></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><p><math>R_{avg} \leq 0.5\% @ 600 - 1050nm</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><h3>Fused Silica with NIR II Coating<br/>Typical Transmission</h3></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><p><math>R_{abs} \leq 1.5\% @ 750 - 800nm</math><br/><math>R_{abs} \leq 1.0\% @ 800 - 1550nm</math><br/><math>R_{avg} \leq 0.7\% @ 750 - 1550nm</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> |

## 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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