

TECHSPEC®

Plankonkave Linse aus UV-Quarzglas, 25 mm D. x -100 eff. Brennweite, VIS-NIR-beschichtet



UV Fused Silica Plano-Concave (PCV) Lenses



Produkt #21-056 **KONTAKT**

[Andere Beschichtungen](#)

- 1 + €164⁰⁰

+ WARENKORB

Mengenrabatte	
Stk. 1-5	€164,00 stückpreis
Stk. 6-25	€131,00 stückpreis
Stk. 26-49	€123,00 stückpreis
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ⓘ Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Typ:

Plano-Concave Lens

Hinweis:

Max. Flat Annulus is 0.3mm

Physikalische und mechanische Eigenschaften

Durchmesser (mm):

25.00 +0.0/-0.025

Mittendicke CT (mm):

2.50

Toleranz Mittendicke (mm):

±0.10

Zentrierung (Bogenminuten):

<1

Freie Apertur CA (mm):

24

Randdicke ET (mm):

4.15

Optische Eigenschaften

Effektive Brennweite EFL (mm):

-100.00

Substrat:

[Fused Silica](#) (Corning 7980)

Blende:

4.00

Numerische Apertur NA:

0.13

Beschichtung:

VIS-NIR (400-1000nm)

Wellenlängenbereich (nm):

400 - 1000

Hintere Brennweite BFL (mm):

-101.71

Beschichtungsspezifikation:

R_{abs} ≤0.25% @ 880nm

R_{avg} ≤1.25% @ 400 - 870nm

R_{avg} ≤1.25% @ 890 - 1000nm

Designwellenlänge Brennweite (nm):

587.6

Toleranz Brennweite (%):

±1

Radius R₁ (mm):

-45.84

Oberflächenqualität:

40-20

Zerstörschwelle, Referenz:

5 J/cm² @ 532nm, 10ns

Power (P-V) @ 632,8 nm:

1.5λ

Unregelmäßigkeit (P-V) @ 632,8 nm:

M4

Konformität mit Standards

RoHS 2015:

[Konform](#)

Konformitätszertifikat:

[Anzeigen](#)

Reach 235:

[Konform](#)

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

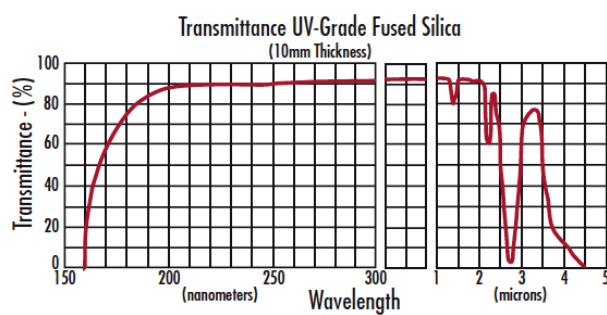
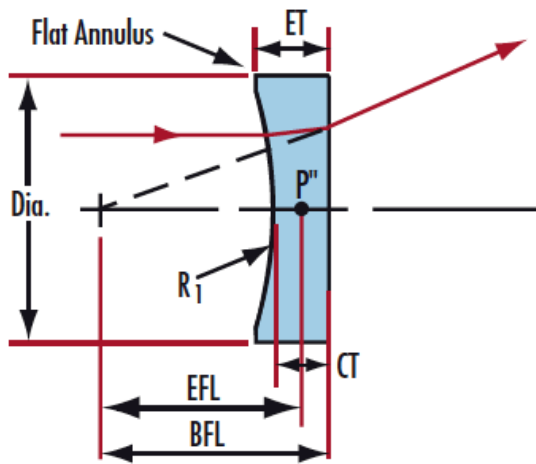
Erfahren Sie mehr über unsere [kundenspezifischen Fertigungsmöglichkeiten](#) oder senden Sie [hier](#) eine Anfrage.

Produktdetails

- Negative Brennweiten zur Strahlaufweitung oder Lichtprojektion
- Wellenlängenbereich von 200 - 2200 nm
- UV-AR-Beschichtungen verfügbar

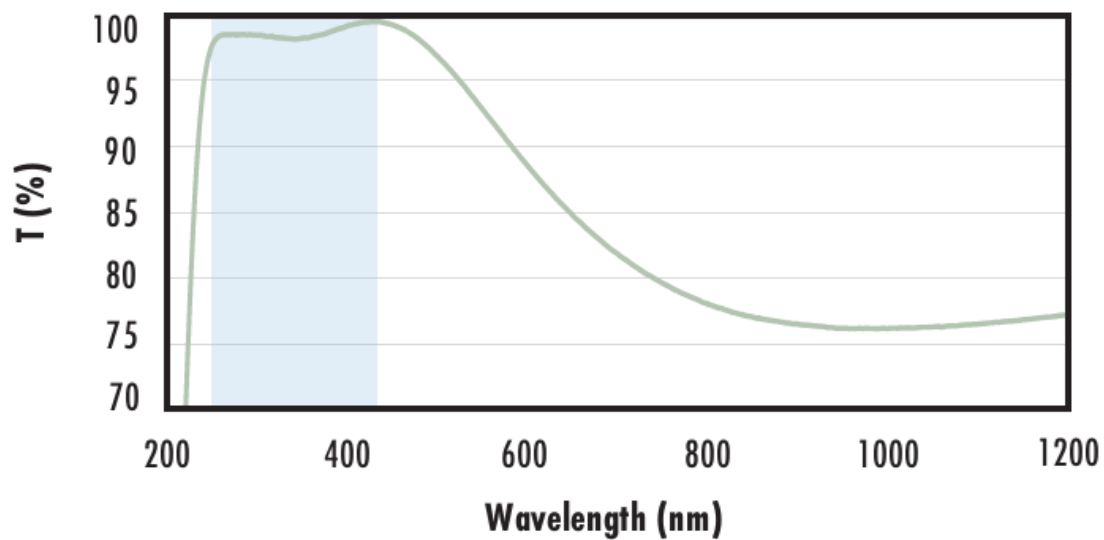
Diese hochqualitativen optischen Elemente werden mit CNC-Maschinen nach dem neuesten Stand der Technik gefertigt. Die UV-Linsen werden aus synthetischem Quarzglas hergestellt. Zusätzlich zur exzellenten Transmission und hohen Temperaturbeständigkeit, bieten die Linsen eine besonders hohe chemische Reinheit. Diese Linsen sind die ideale Wahl für viele Laseranwendungen und bildgebende Anwendungen, besonders im UV-Bereich. Die breitbandige Antireflexbeschichtung ermöglicht eine höhere Transmission im UV-Bereich.

Technische Informationen



UV FS Transmission Curve

FUSED SILICA	
<p style="text-align: center;">Uncoated Fused Silica Typical Transmission</p> <p>The graph shows the typical transmission of a 3mm thick uncoated fused silica window. The y-axis is Transmittance (T) in percent, ranging from 70 to 100. The x-axis is Wavelength in nanometers, ranging from 200 to 2200. The transmission is consistently high, staying above 90% across the entire range, with a small dip at approximately 1400 nm.</p>	<p>Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.</p> <p style="text-align: center;">Click Here to Download Data</p>
<p style="text-align: center;">Fused Silica with MgF₂ Coating Typical Transmission</p> <p>The graph shows the typical transmission of a 3mm thick fused silica window with an MgF₂ coating. The axes are the same as the uncoated graph. A blue shaded region highlights the coating design wavelength range from 400 nm to 700 nm. Within this range, the transmission is slightly higher than the uncoated version, peaking at approximately 97%.</p>	<p>Typical transmission of a 3mm thick fused silica window with MgF₂ (400-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p style="text-align: center;">$R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$ (N-BK7)</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p style="text-align: center;">Click Here to Download Data</p>
<p>Fused Silica with UV-AR Coating Typical Transmission</p>	



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:

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

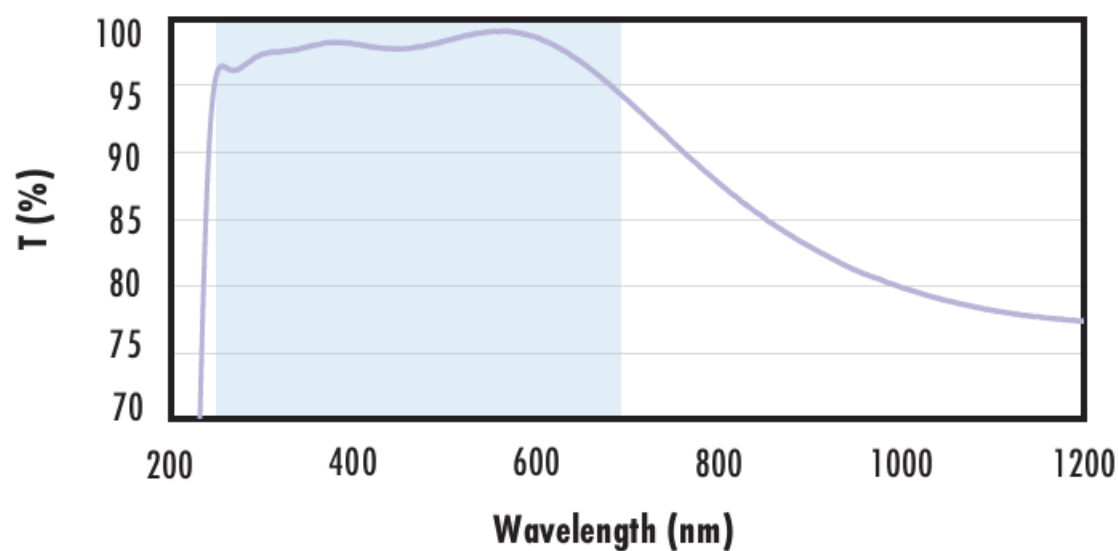
$$R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$$

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

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:

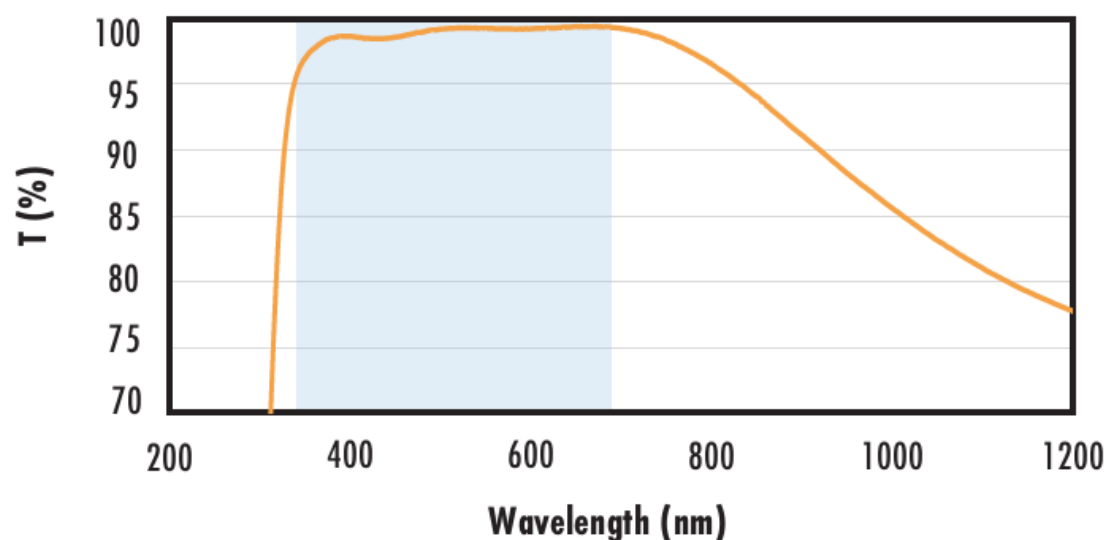
$$R_{abs} \leq 1.0\% @ 350 - 450\text{nm}$$

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

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.

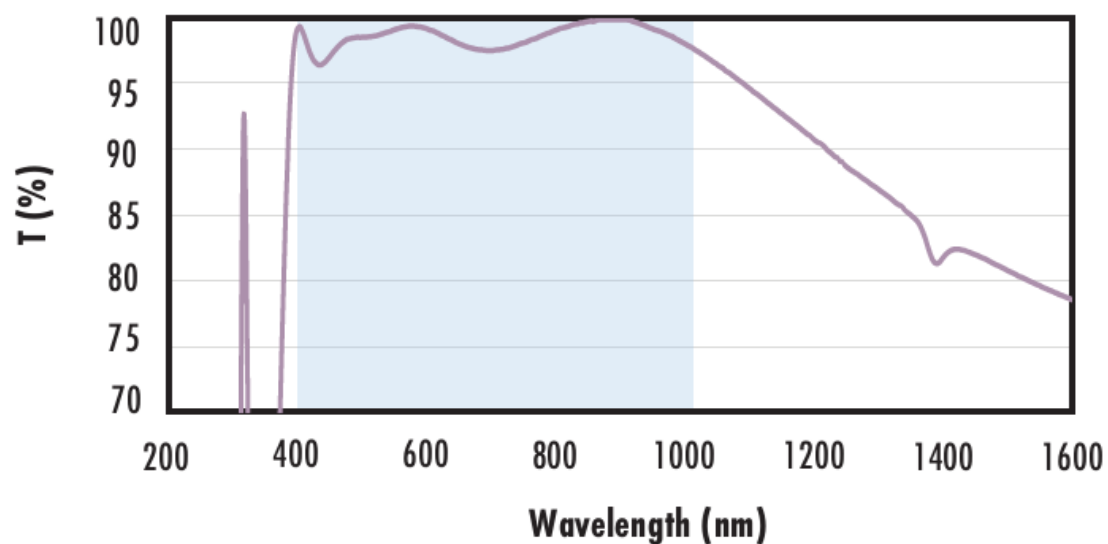
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$$

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:

$$R_{abs} \leq 0.25\% @ 880\text{nm}$$

$$R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$$

$$R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$$

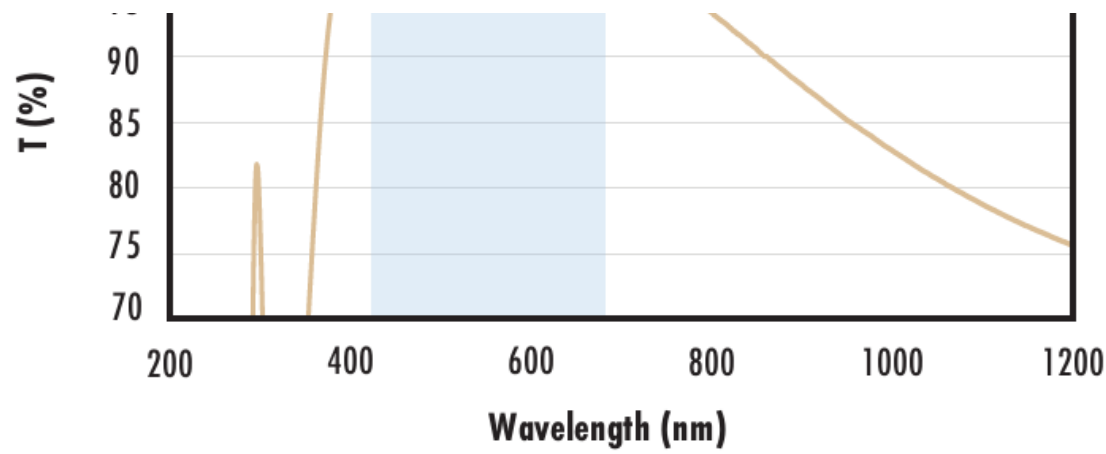
Data outside this range is not guaranteed and is for reference only.

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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



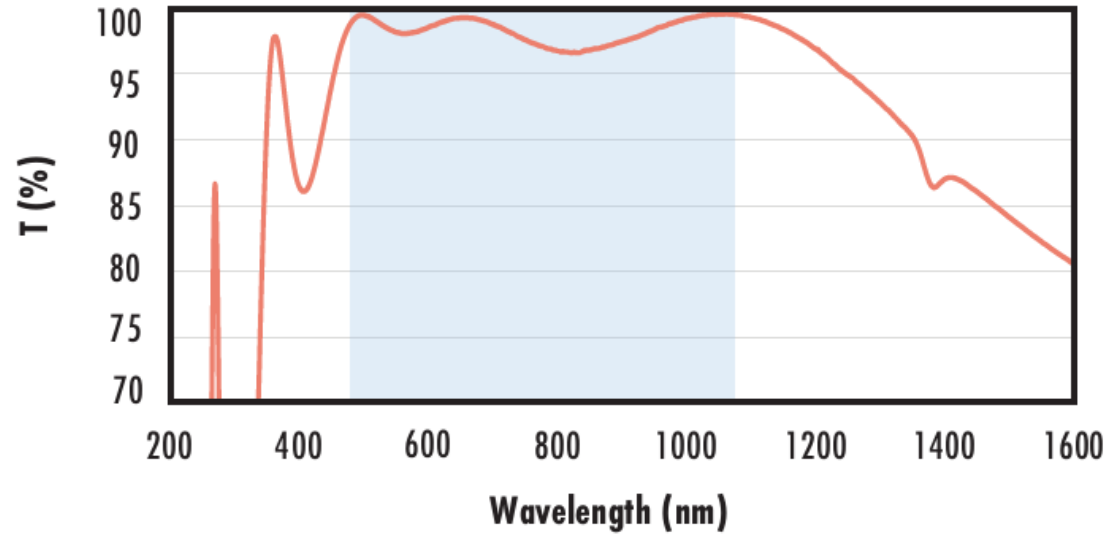
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$

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

[Click Here to Download Data](#)

**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.

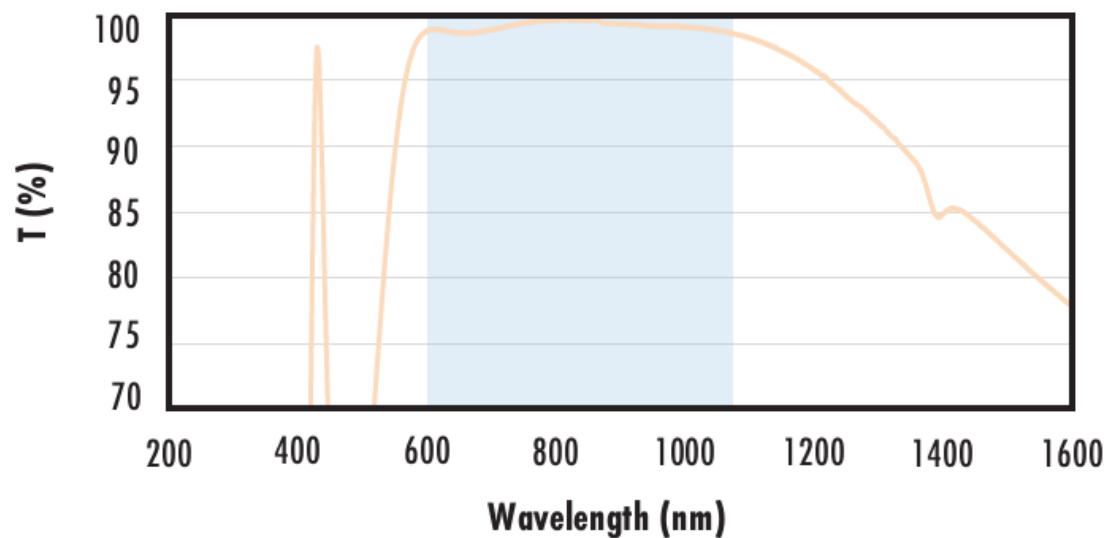
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 0.25\% @ 532\text{nm}$
 $R_{abs} \leq 0.25\% @ 1064\text{nm}$
 $R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}$

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

[Click Here to Download Data](#)

**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.

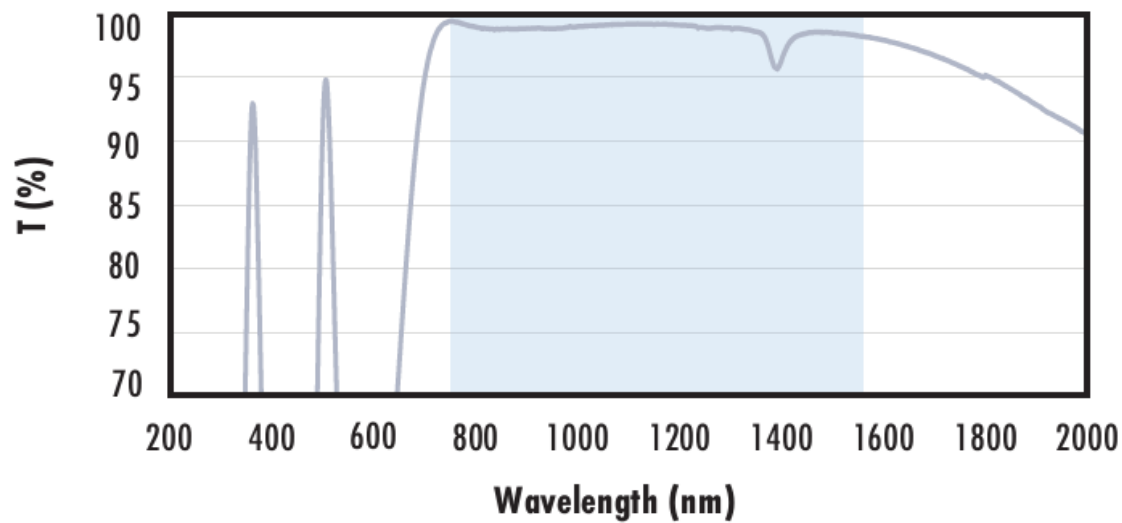
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}$

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

[Click Here to Download Data](#)

**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:

$R_{abs} \leq 1.5\% @ 750 - 800\text{nm}$
 $R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}$
 $R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}$

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

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Beschichtungskurven

Kompatible Halterungen

