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TECHSPEC®

Plankonkave Linse aus UV-Quarzglas, 12 mm D. x -25 eff. Brennweite, VIS-NIR-beschichtet

UV Fused Silica Plano-Concave (PCV) Lenses

Produkt **#21-049** **8 In Stock**

Andere Beschichtungen

- 1 + **€157**,00

+ WARENKORB

Mengenrabatte	
Stk. 1-5	**€157,00** stückpreis
Stk. 6-25	**€126,00** stückpreis
Stk. 26-49	**€118,00** stückpreis
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Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

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Produktdetails

Typ:

Plano-Concave Lens

Hinweis:

Max. Flat Annulus is 0.3mm

Physikalische und mechanische Eigenschaften

Durchmesser (mm):
12.00 +0.0/-0.025

Mittendicke CT (mm):
2.00

Toleranz Mittendicke (mm):
±0.05

Zentrierung (Bogenminuten):
<1

Freie Apertur CA (mm):
11

Randdicke ET (mm):
3.52

Optische Eigenschaften

Effektive Brennweite EFL (mm):
-25.00

Substrat:
Fused Silica (Corning 7980)

Blende:
2.08

Numerische Apertur NA:
0.24

Beschichtung:
VIS-NIR (400-1000nm)

Wellenlängenbereich (nm):
400 - 1000

Hintere Brennweite BFL (mm):
-26.37

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 R_1 (mm):
-11.46

Oberflächenqualität:
40-20

Zerstörschwelle, Referenz:
5 J/cm^2 @ 532nm, 10ns

Power (P-V) @ 632,8 nm:
1.5λ

Unregelmäßigkeit (P-V) @ 632,8 nm:
λ/4

Konformität mit Standards

RoHS 2015:
Konform

Konformitätszertifikat:
Anzeigen

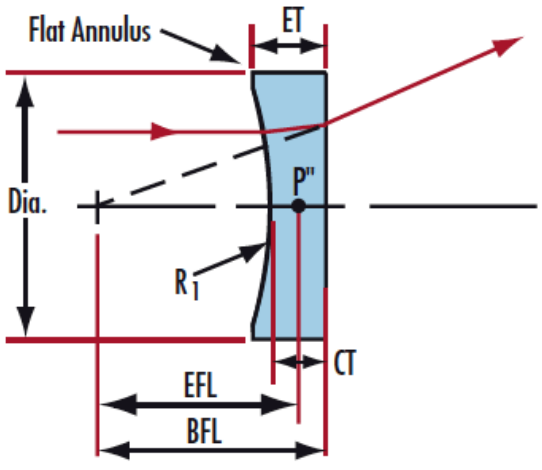
Reach 235:
Konform

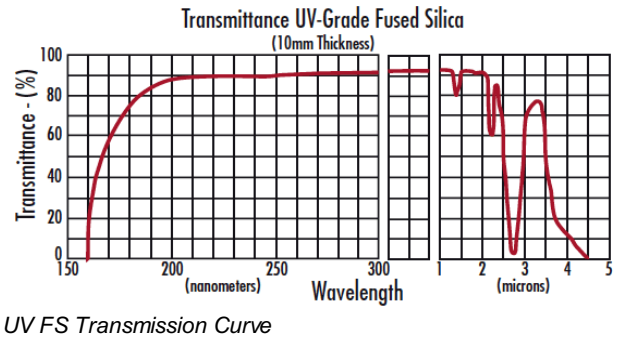
Produktdetails

- 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.

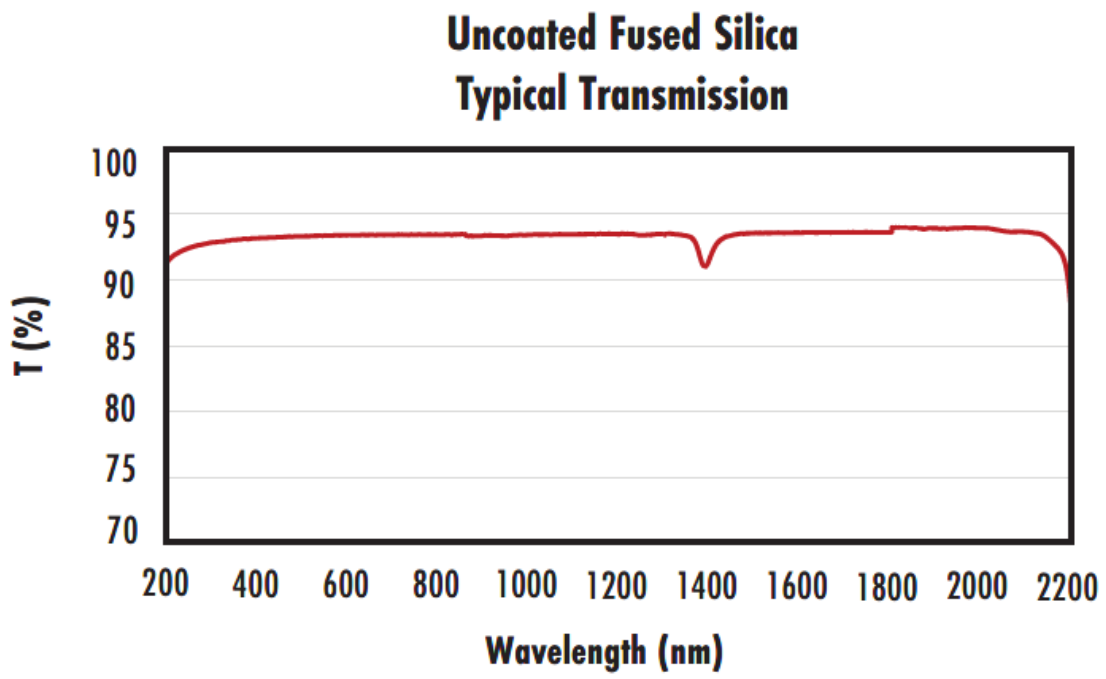
Technische Informationen





UV FS Transmission Curve

FUSED SILICA



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

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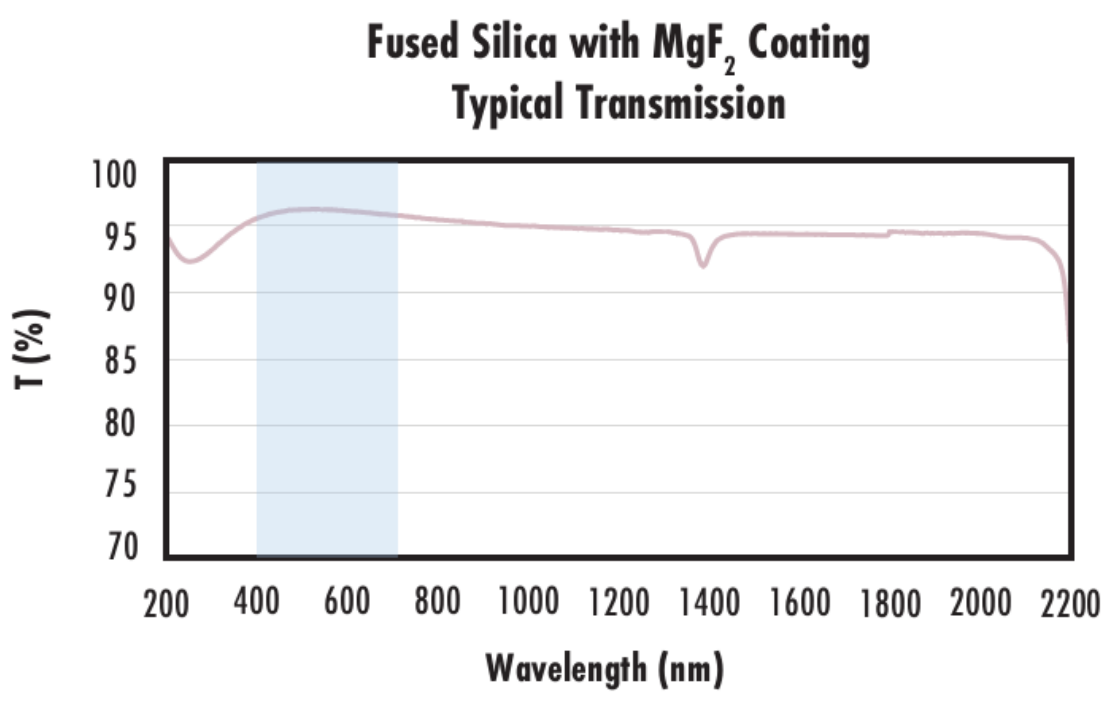

Typical transmission of a 3mm thick fused silica window with MgF2 (400-700nm) coating at 0° AOI.

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

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

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

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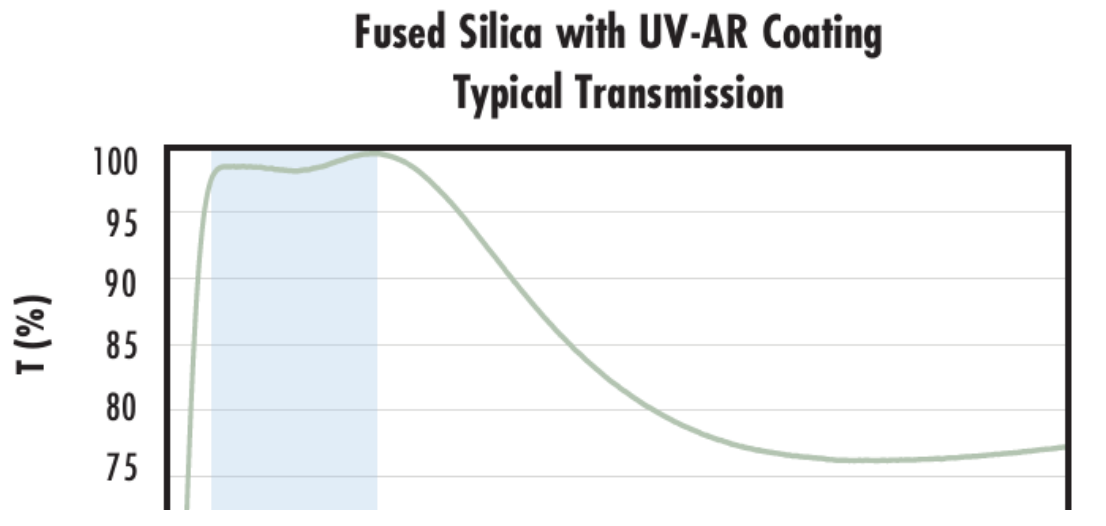

Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.

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

$R_{abs} \leq 1.0\%$ @ 250 - 425nm
$R_{avg} \leq 0.75\%$ @ 250 - 425nm
$R_{avg} \leq 0.5\%$ @ 370 - 420nm

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

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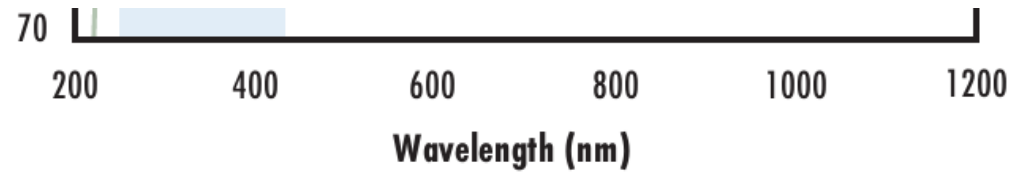

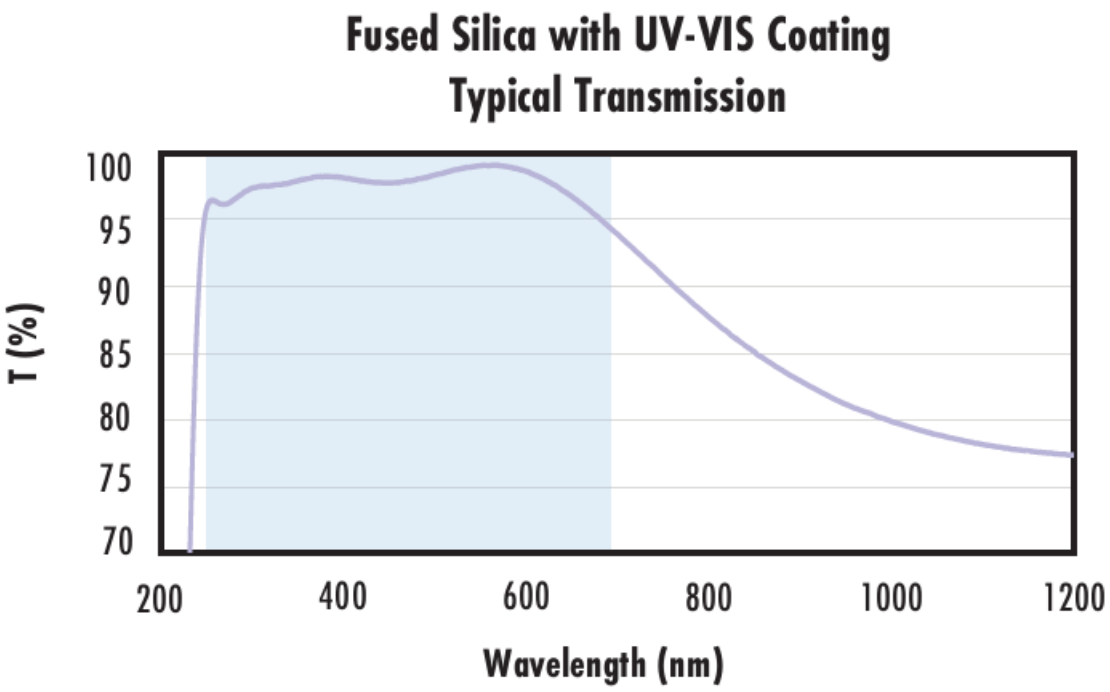

Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

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

R_{abs} ≤ 1.0% @ 350 - 450nm
R_{avg} ≤ 1.5% @ 250 - 700nm

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

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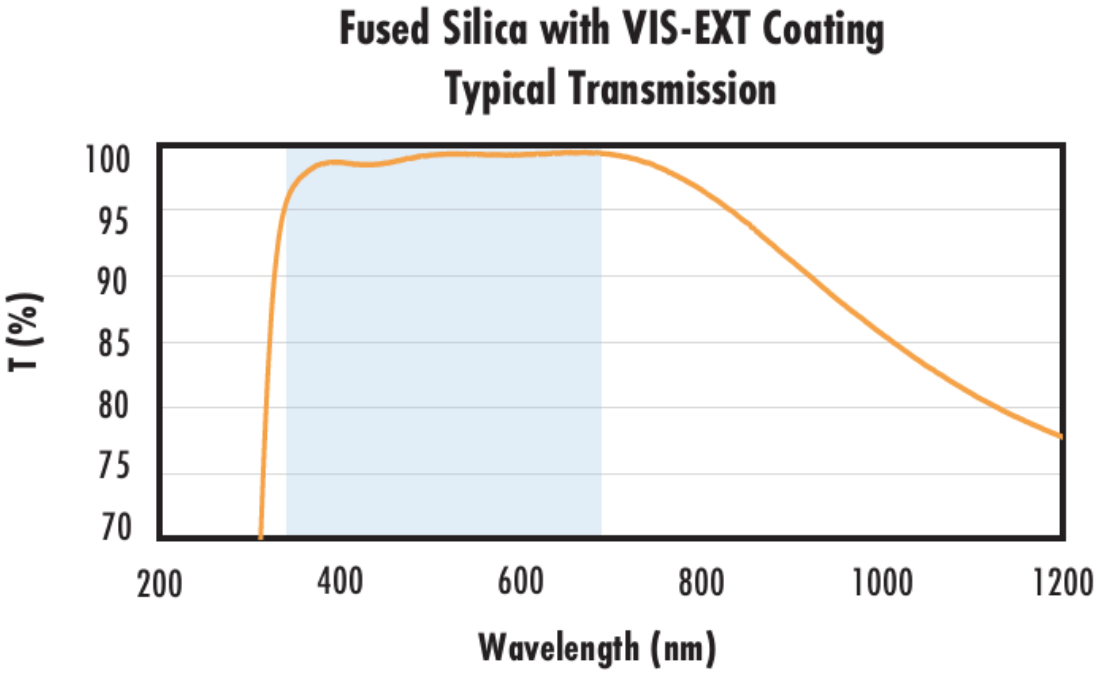

Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

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

R_{avg} ≤ 0.5% @ 350 - 700nm

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

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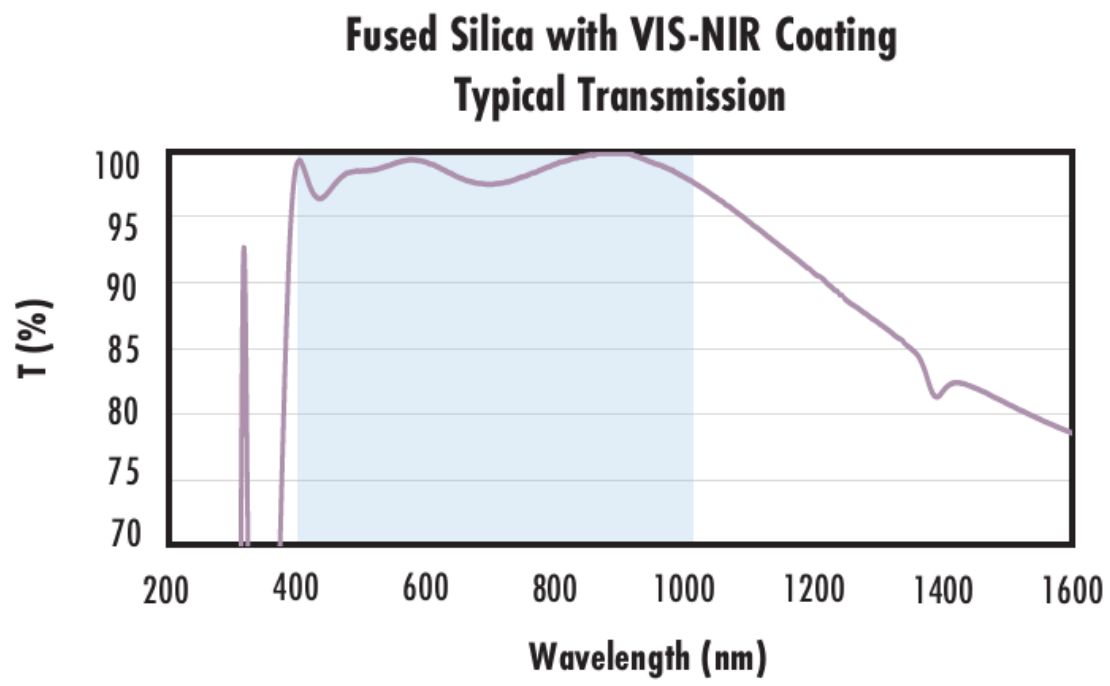

Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.

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

R_{abs} ≤ 0.25% @ 880nm
R_{avg} ≤ 1.25% @ 400 - 870nm
R_{avg} ≤ 1.25% @ 890 - 1000nm

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

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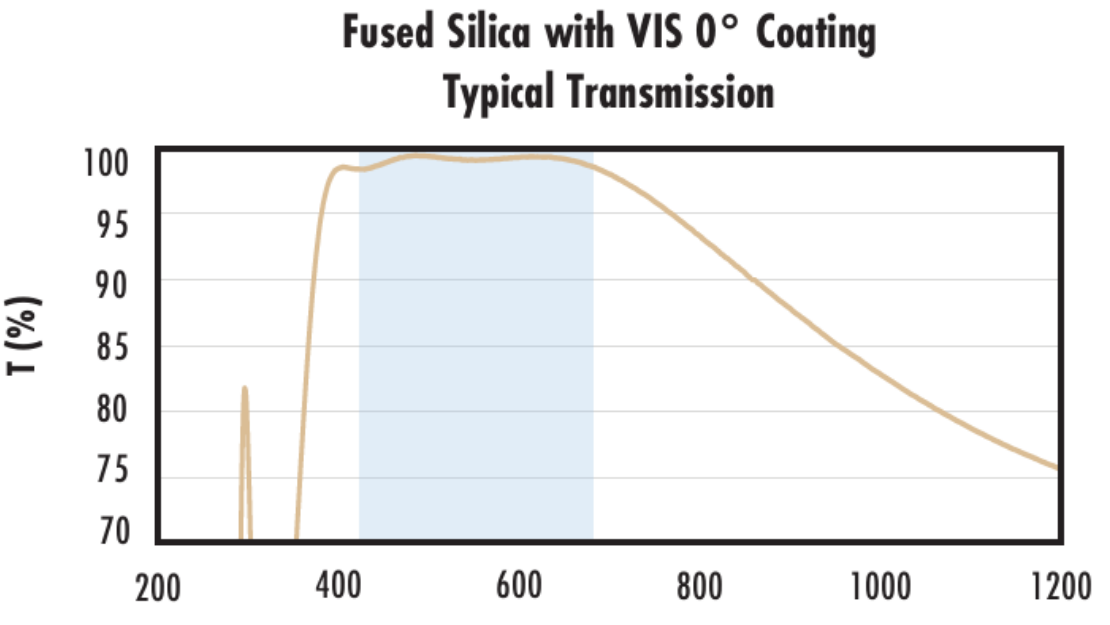

Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

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

R_{avg} ≤ 0.4% @ 425 - 675nm

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

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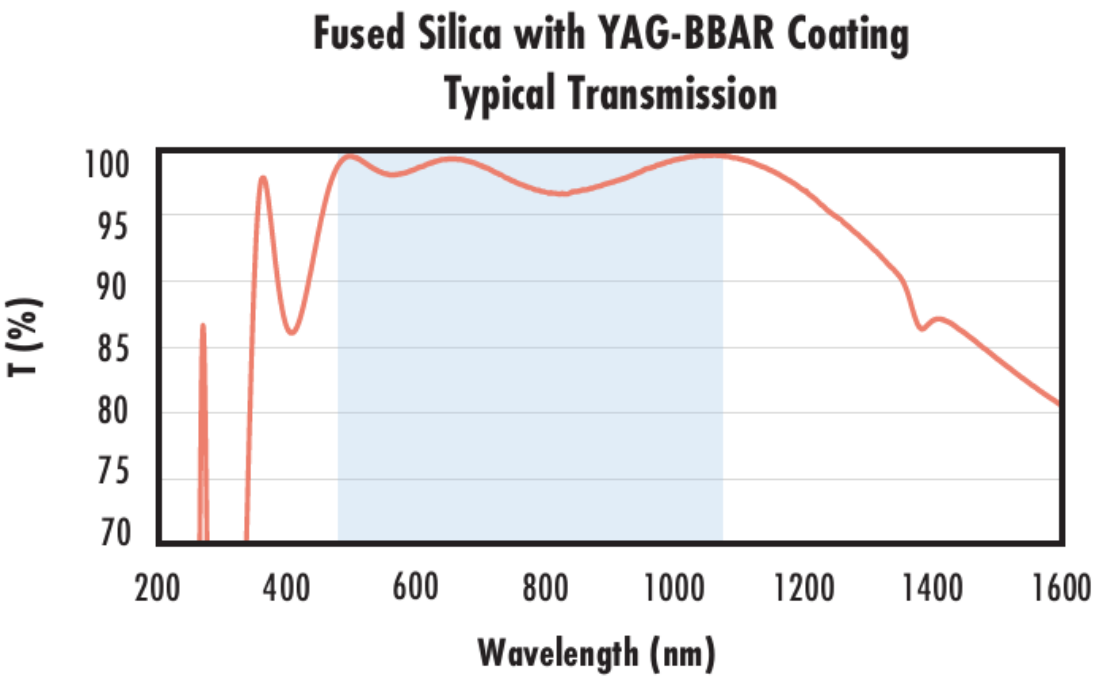
Wavelength (nm)



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 wavelengh 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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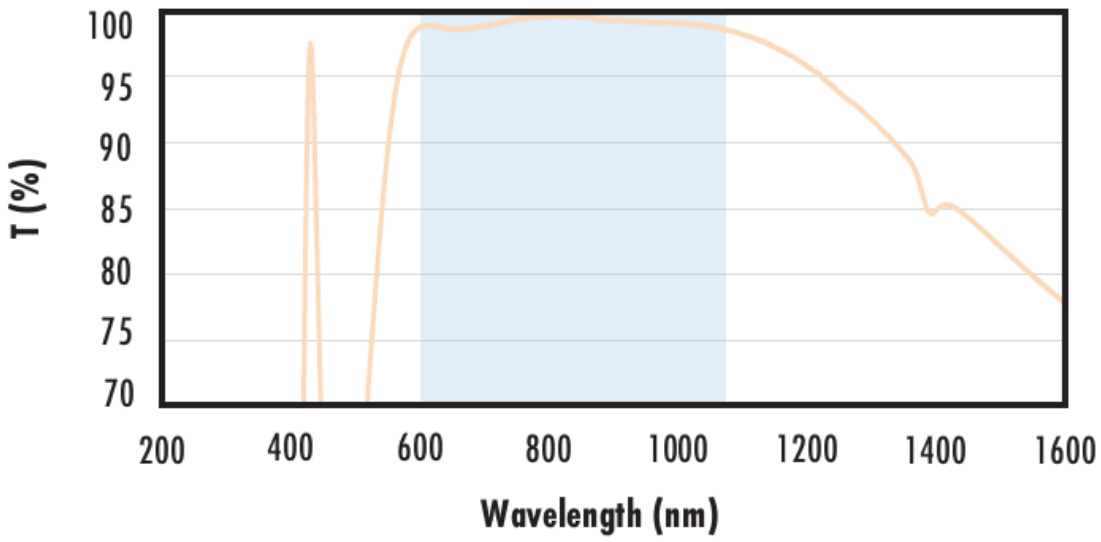

Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelengh 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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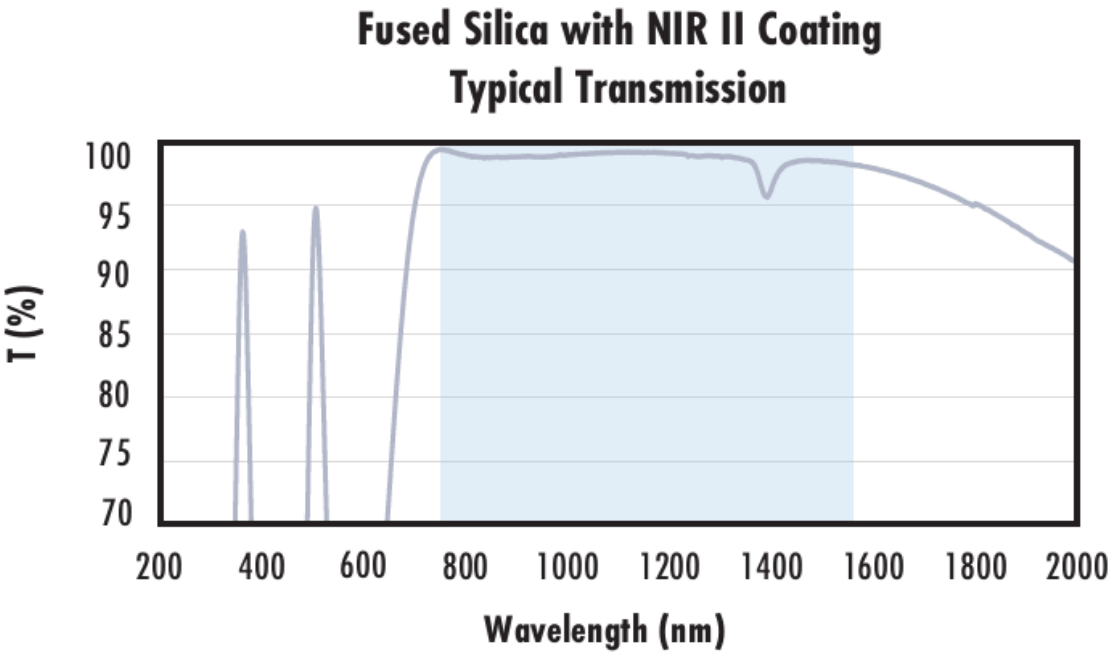

Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelengh 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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Beschichtungskurven

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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