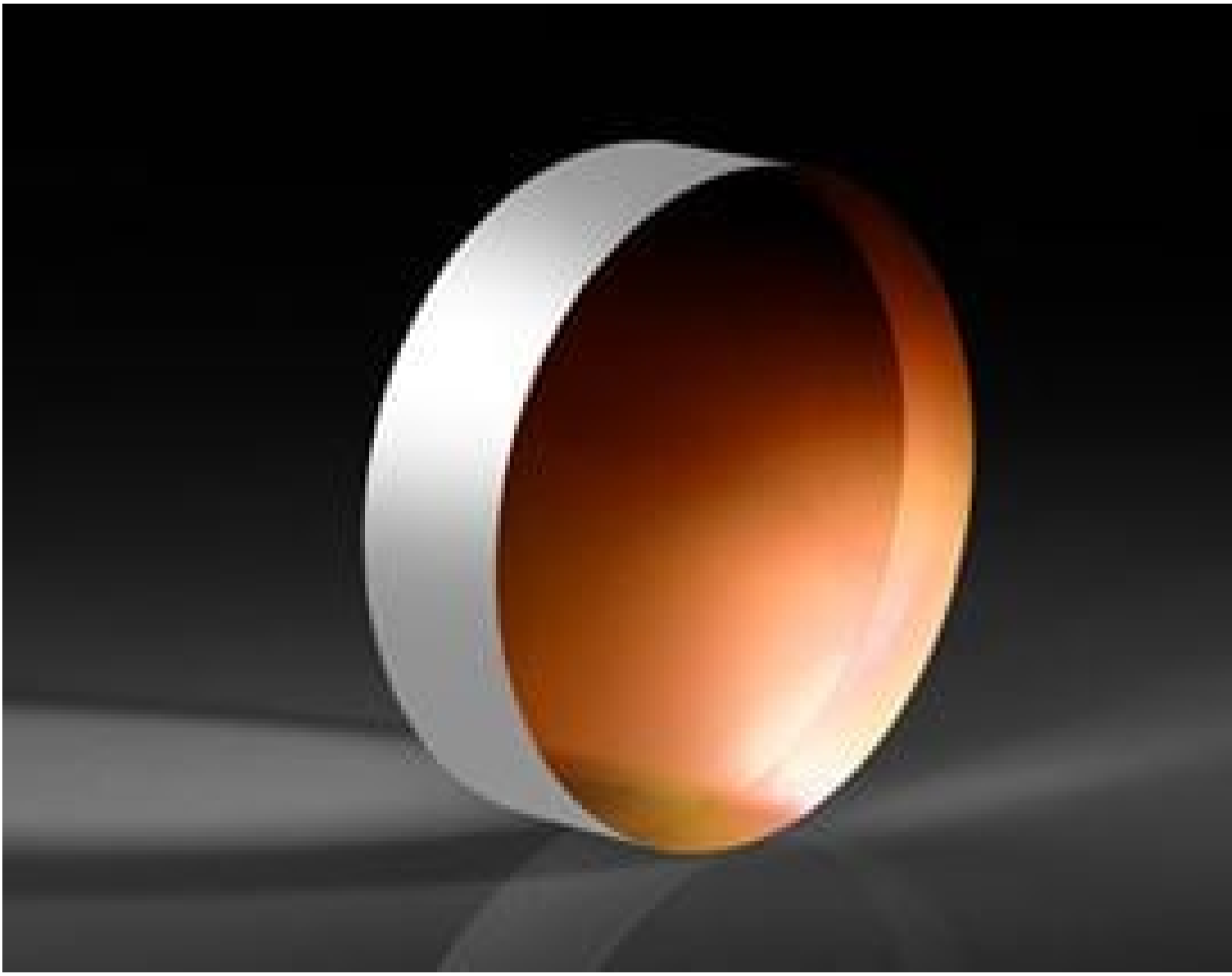
Alle 259 Produkte der Produktfamilie

TECHSPEC λ/10-Quarzglasfenster, 15 mm D., 2 mm Dicke, NIR-I-beschichtet



Produkt **#84-463** KONTAKT

- 1 + **€172**.00

+ WARENKORB

Mengenrabatte	
Stk. 1-5	**€172,00** stückpreis
Stk. 6-25	**€137,00** stückpreis
Stk. 26-49	**€129,00** stückpreis
Need More?	Angebotsanfrage

Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Typ:
Protective Window

Fenstertyp:
Glass

Physikalische und mechanische Eigenschaften

Freie Apertur CA (mm):
12.00

Durchmesser (mm):
15.00 +0.00/-0.20

Dicke (mm):
2.00 ±0.10

Toleranz Größe (mm):
+0.00/-0.20

Fase:
Protective as needed

Freie Apertur (%):
80

Kanten:
Fine Ground

Parallelität (Bogensekunden):
<5

Poisson-Zahl:
0.16

Elastizitätsmodul (GPa):
73

Knoop-Härte (kg/mm^2):
522.00

Optische Eigenschaften

Beschichtung:
NIR I (600-1050nm)

Substrat:
Fused Silica (Corning 7980)

Brechungsindex (n_d):
1.458

Oberflächenqualität:
20-10

Transmittierte Wellenfront, P-V:
λ/10

Abbe-Zahl (v_d):
67.8

Beschichtungsspezifikation:
R_{avg} ≤0.5% @ 600 - 1050nm

Wellenlängenbereich (nm):
600 - 1050

Zerstörschwelle, Referenz:
7 J/cm^2 @ 1064nm, 10ns

Materialeigenschaften

Dichte (g/cm^3):
2.20

Thermischer Ausdehnungskoeffizient CTE (10^{-6}/°C):
0.52 (+5 to +35°C)
0.57 (0 to +200°C)
0.48 (-100 to +200°C)

Güte Quarzglas:
7980 0G

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.

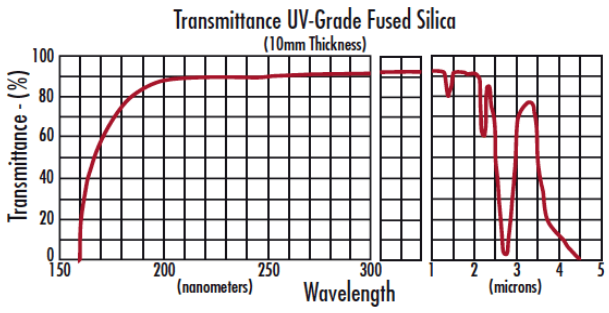
Produktdetails

- Fenster mit UV-VIS- und UV-Antireflexionsbeschichtung lieferbar

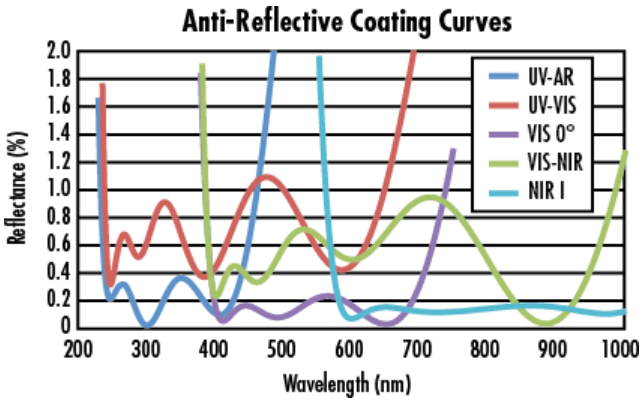
- Transmittierte Wellenfrontverzerrung von λ/10
- Rund oder quadratisch mit Größen zwischen 2 und 150 mm
- **1λ-** oder **λ/4-**Fenster aus UV-Quarzglas ebenfalls erhältlich

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.

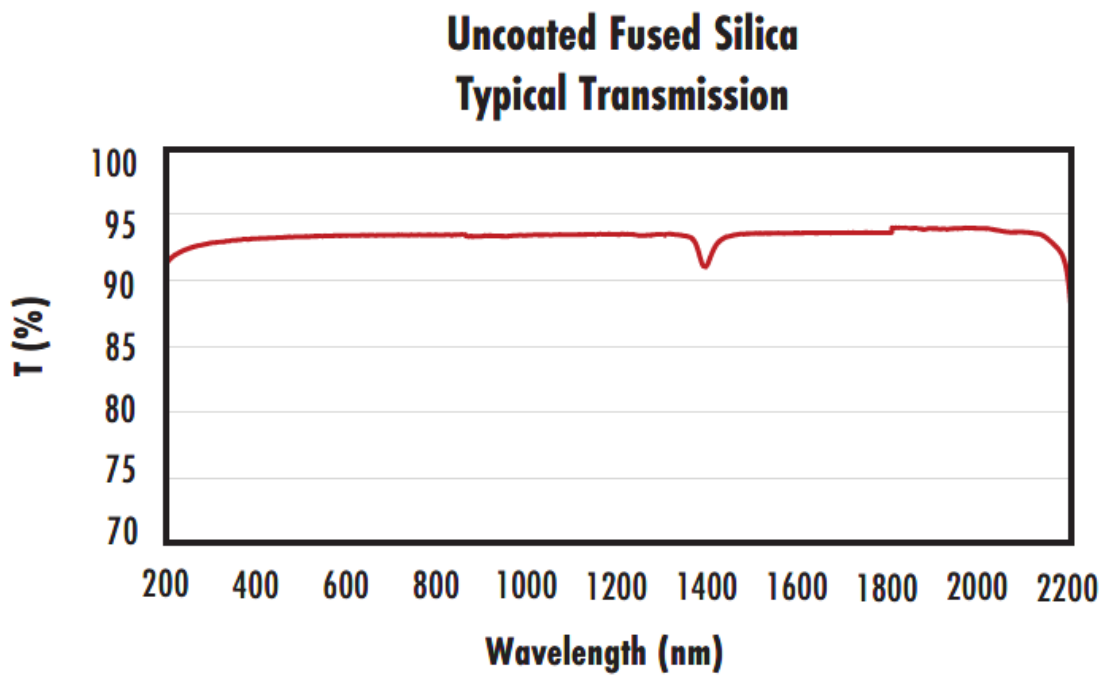
Technische Informationen



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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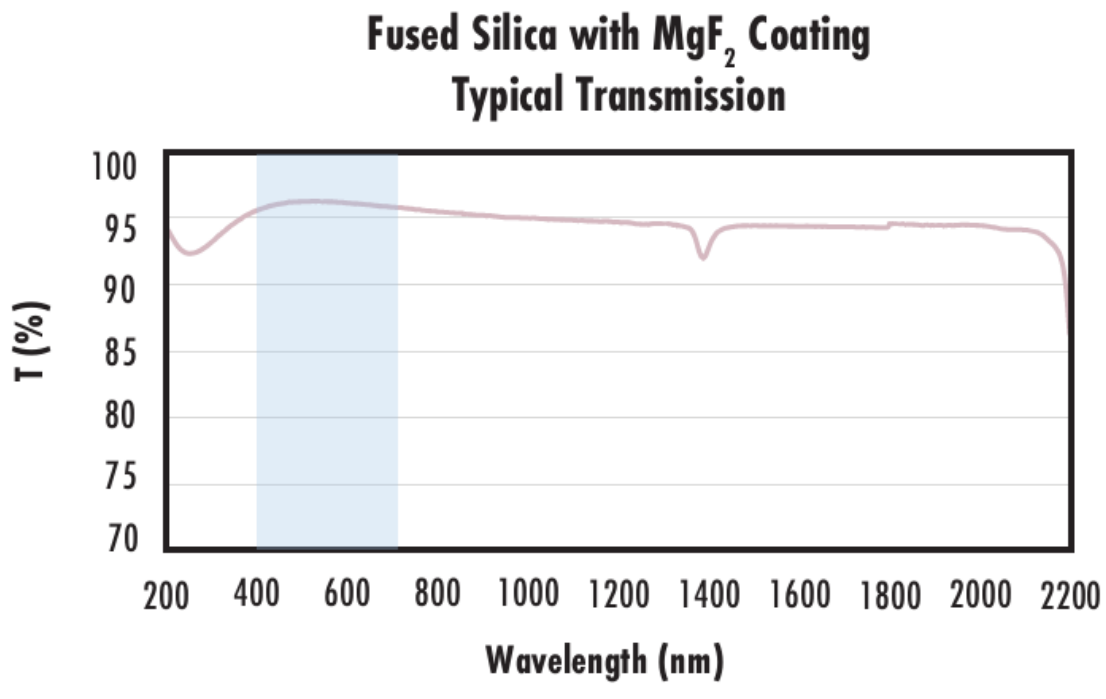

Typical transmission of a 3mm thick fused silica window with MgF2 (400-700nm) coating at 0° AOI.

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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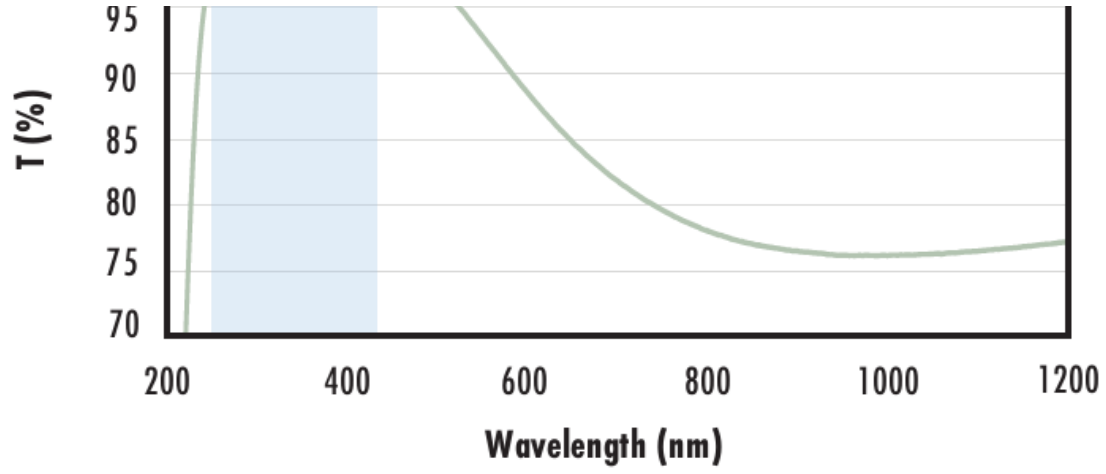
Typical transmission of a 3mm thick fused silica window



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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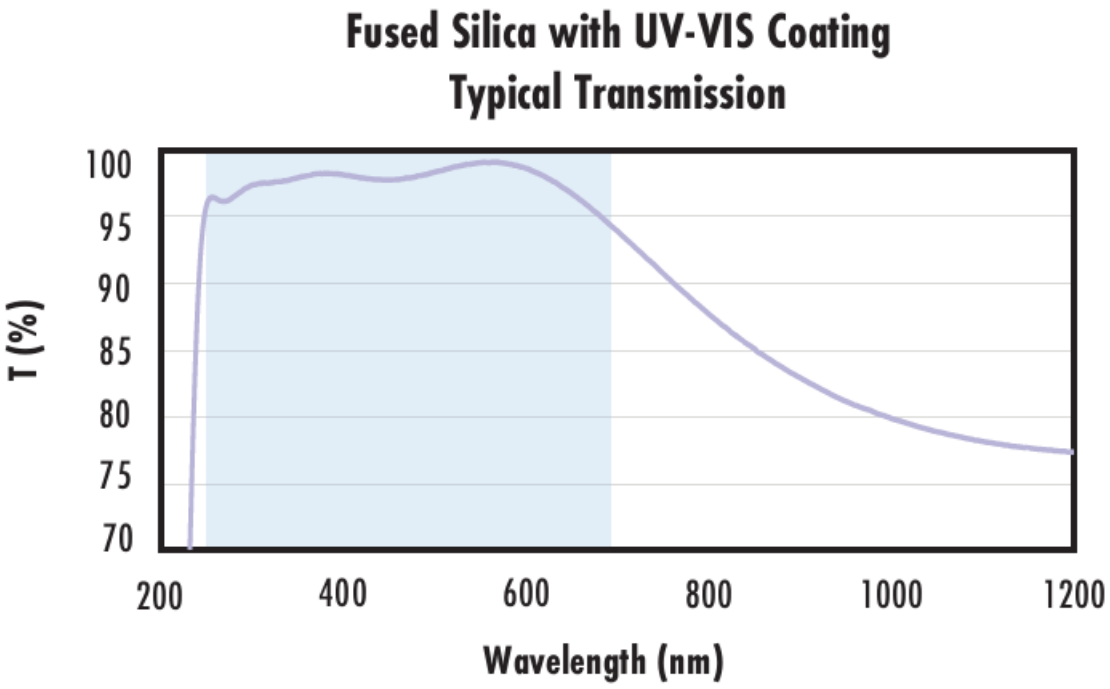

Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

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

$R_{abs} \leq 1.0\%$ @ 350 - 450nm
$R_{avg} \leq 1.5\%$ @ 250 - 700nm

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

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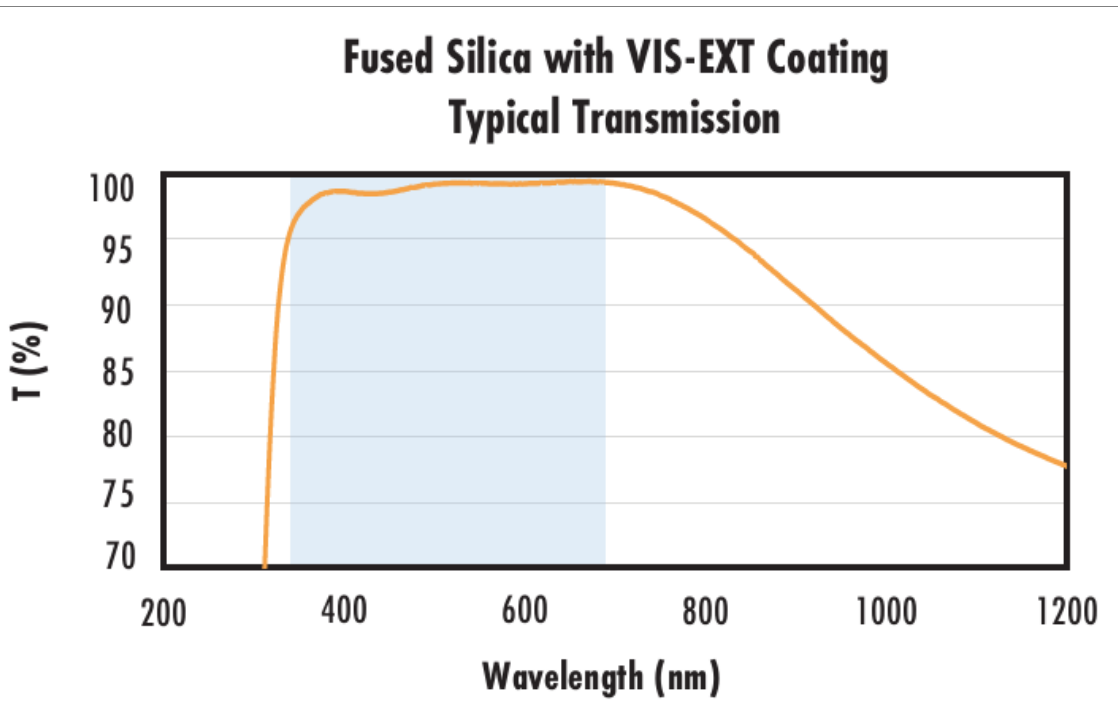

Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

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

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

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

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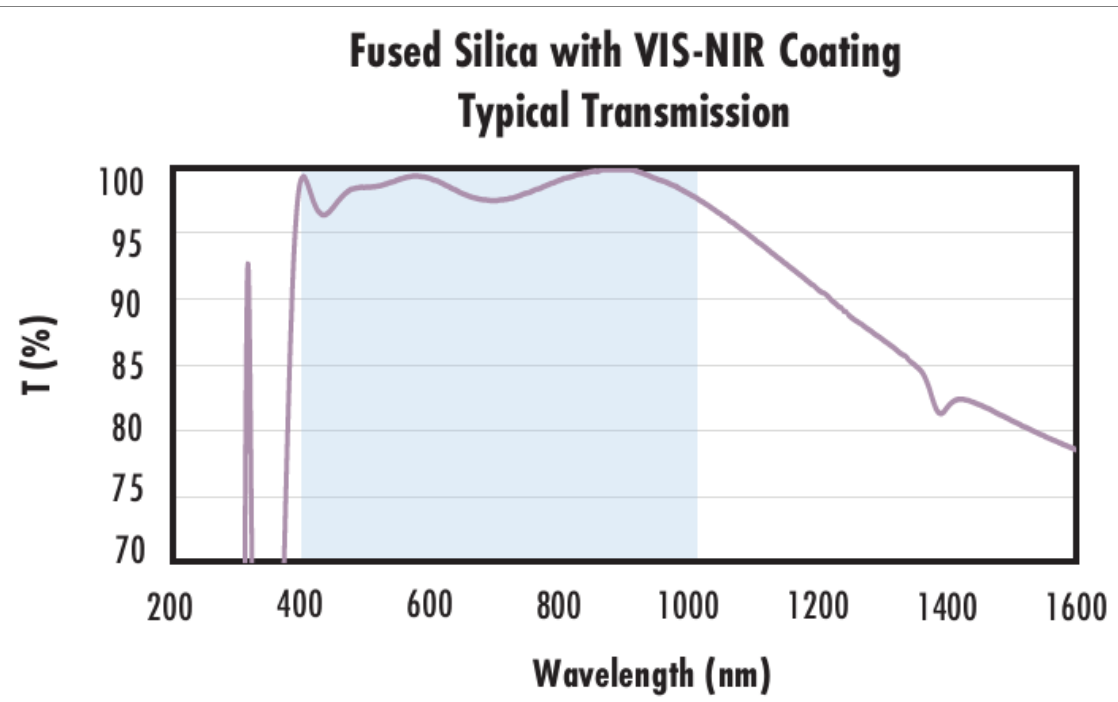

Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.

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

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

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

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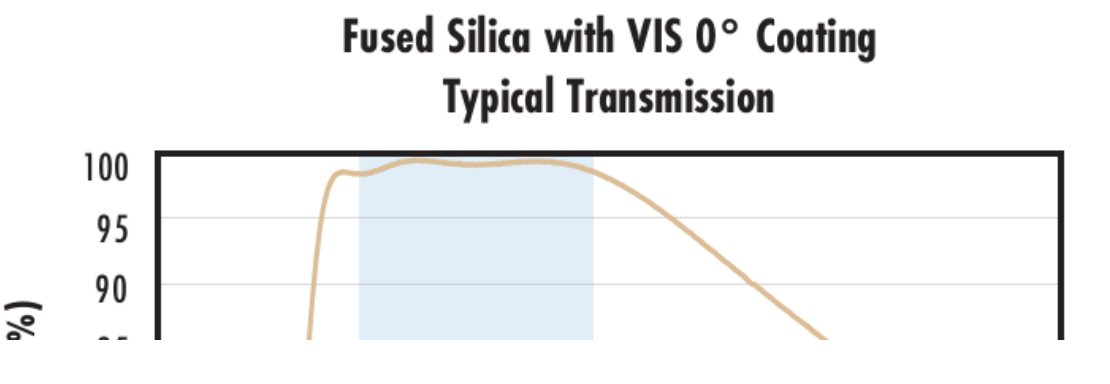
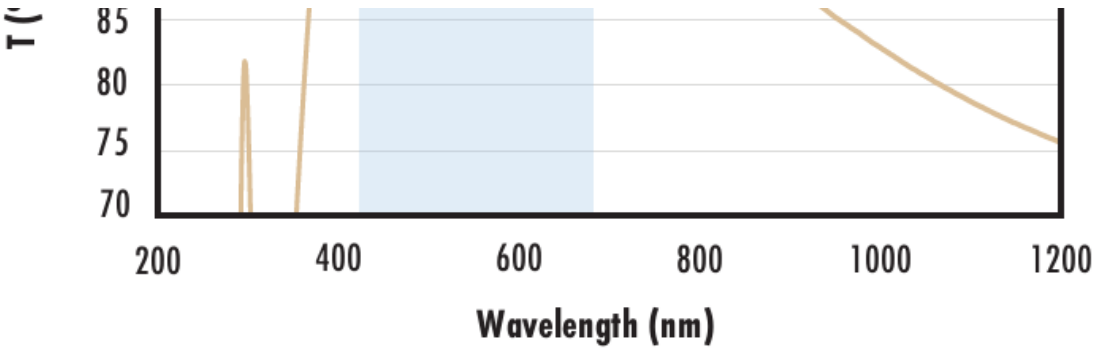


Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

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



R_{avg} ≤ 0.4% @ 425 - 675nm

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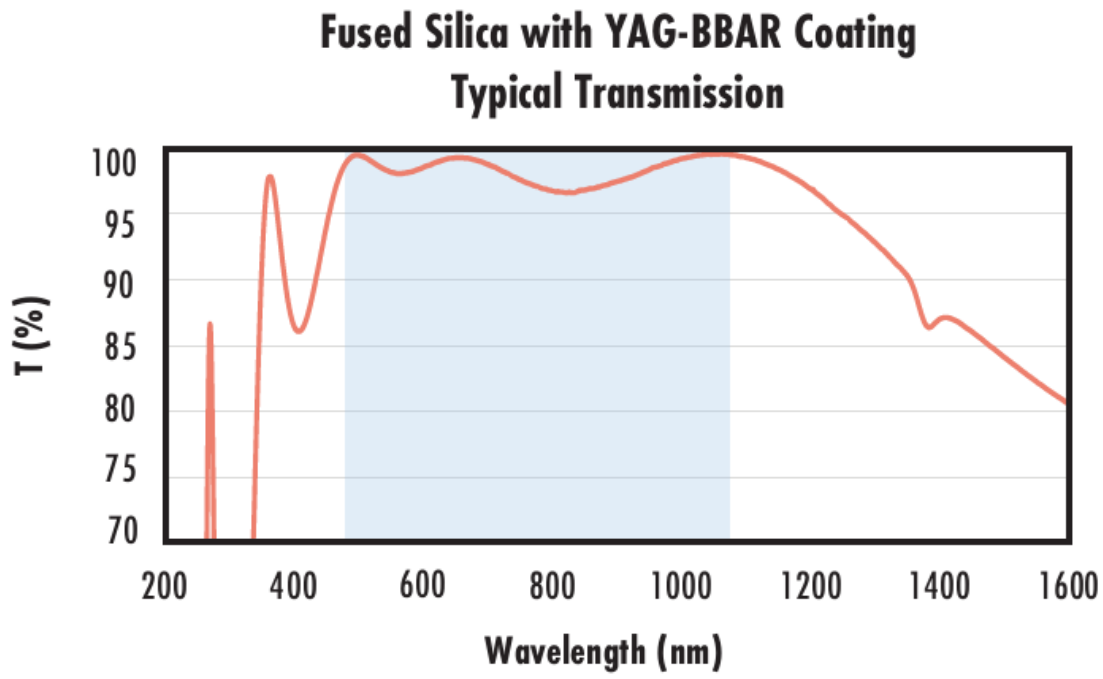

Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.

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

R_{abs} ≤ 0.25% @ 532nm
R_{abs} ≤ 0.25% @ 1064nm
R_{avg} ≤ 1.0% @ 500 - 1100nm

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

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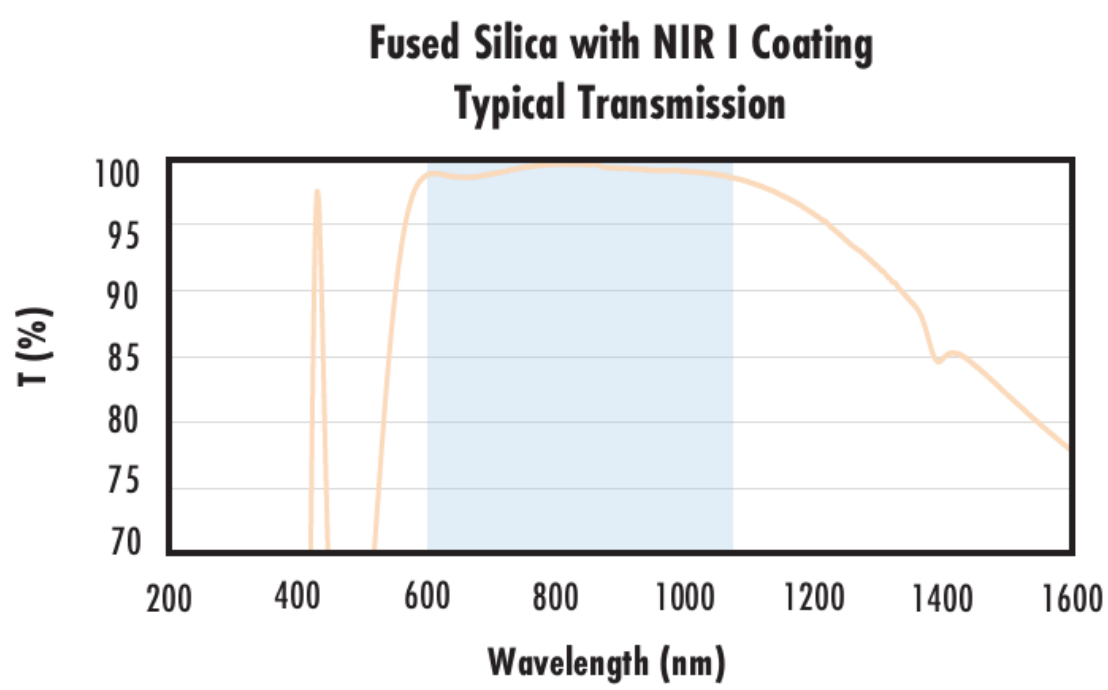

Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.

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

R_{avg} ≤ 0.5% @ 600 - 1050nm

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

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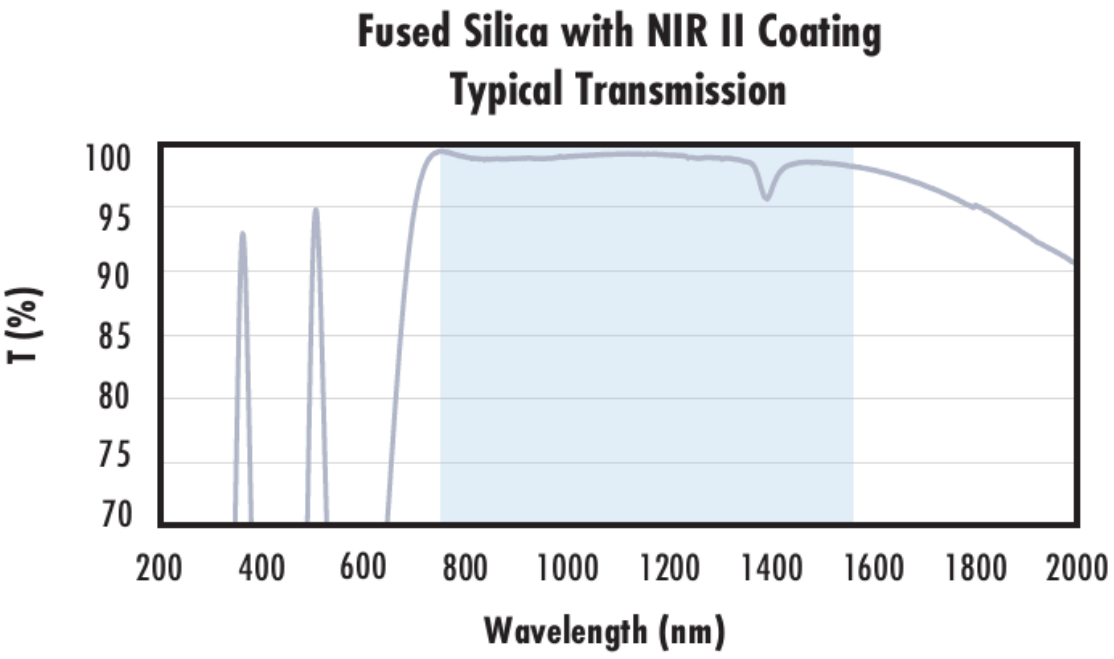

Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.

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

R_{abs} ≤ 1.5% @ 750 - 800nm
R_{abs} ≤ 1.0% @ 800 - 1550nm
R_{avg} ≤ 0.7% @ 750 - 1550nm

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

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Kompatible Halterungen

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