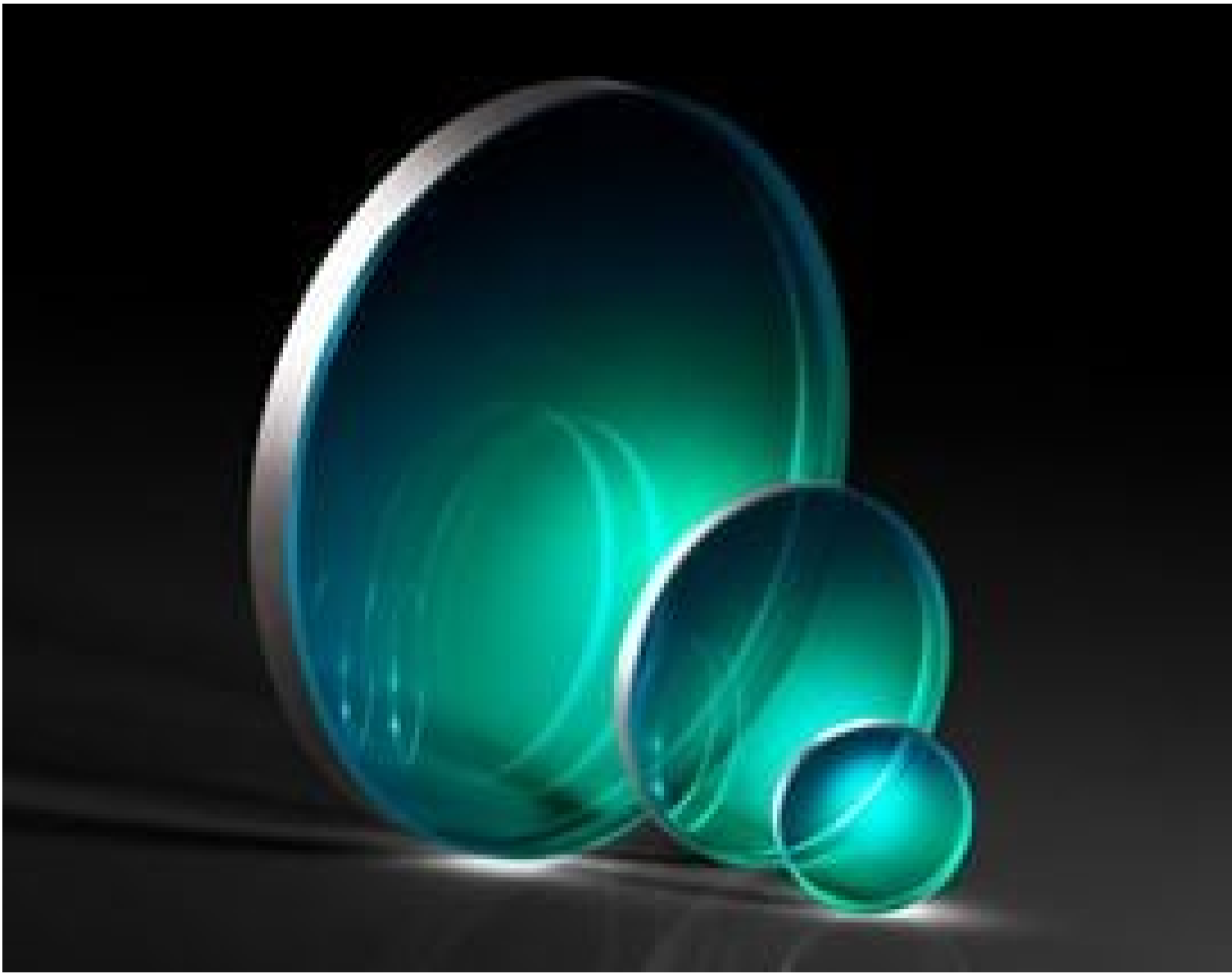
Alle 216 Produkte der Produktfamilie

TECHSPEC® λ/4-Quarzglasfenster, 12,5 mm Durchm., 3 mm Dicke, UV-beschichtet



TECHSPEC® λ/4 UV Fused Silica Windows

Produkt **#25-638** **1 In Stock**

- 1 + **€138**.00

+ WARENKORB

Mengenrabatte	
Stk. 1-5	**€138,00** stückpreis
Stk. 6-25	**€110,00** stückpreis
Stk. 26-49	**€103,00** stückpreis
Need More?	Angebotsanfrage

Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

#Sorting:

30.00

Produktdetails

Typ:

Protective Window

Physikalische und mechanische Eigenschaften

Freie Apertur CA (mm):

11.25

Durchmesser (mm):
12.50 +0.00/-0.10

Dicke (mm):
3.00 ±0.10

Parallelität (Bogenminuten):
<1

Fase:
Protective as needed

Freie Apertur (%):
90

Kanten:
Fine Ground

Poisson-Zahl:
0.16

Elastizitätsmodul (GPa):
73

Knoop-Härte (kg/mm^2):
522.00

Optische Eigenschaften

Beschichtung:
UV-AR (250-425nm)

Substrat:
Fused Silica (Corning 7980)

Brechungsindex (n_d):
1.458

Oberflächenqualität:
40-20

Transmittierte Wellenfront, P-V:
λ/4

Abbe-Zahl (v_d):
67.8

Beschichtungsspezifikation:
R_{abs} ≤1.0% @ 250 - 425nm
R_{avg} ≤0.75% @ 250 - 425nm
R_{avg} ≤0.5% @ 370 - 420nm

Wellenlängenbereich (nm):
250 - 450

Zerstörschwelle, Referenz:
3 J/cm^2 @ 355nm, 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)

Konformität mit Standards

RoHS 2015:
Konform

Konformitätszertifikat:
Anzeigen

REACH 241:
Konform

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.

Unser Service beinhaltet:

- Kundenspezifische Abmessungen, Materialien und mehr
- Hochpräzise Oberflächenqualität und -ebenheit
- Enge Toleranzen und komplexe Formen
- Skalierbare Produktion – vom Prototypen zur Serie

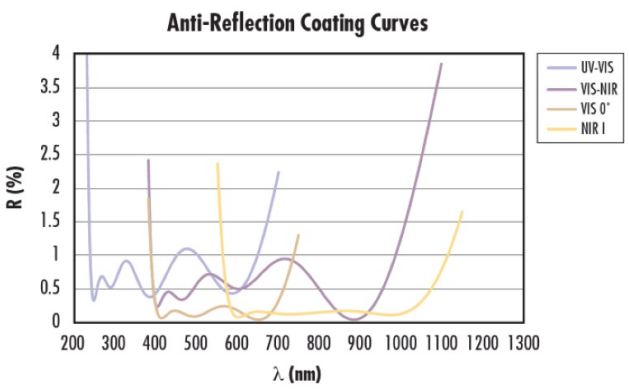
Erfahren Sie mehr über unsere kundenspezifischen Fertigungsmöglichkeiten oder senden Sie hier eine Anfrage.

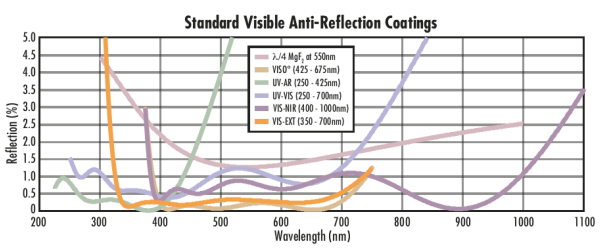
Produktdetails

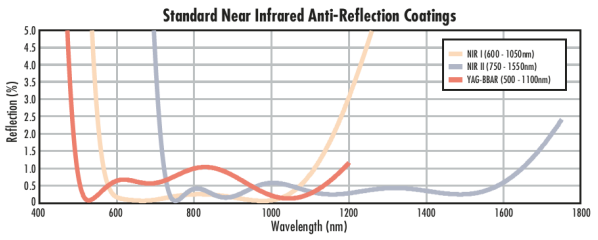
- Verfügbar unbeschichtet sowie BBAR-beschichtet für UV, VIS und NIR
- Ideal für Bildverarbeitungsanwendungen
- Rund oder rechteckig mit Größen von 5 bis 200 mm
- 1λ- oder λ/10-Fenster aus UV-Quarzglas sind ebenfalls verfügbar

TECHSPEC® λ/4-Fenster aus UV-Quarzglas haben eine Oberflächenqualität von 40-20 und einen transmittierten Wellenfrontfehler von λ/4. Dies macht sie ideal für Bildverarbeitungsanwendungen. Die Fenster bestehen aus UV-Quarzglassubstraten und bieten eine hohe Transmission vom ultravioletten über den sichtbaren bis zum nahinfraroten Bereich. Es sind breitbandige Antireflexionsbeschichtungen (BBAR) verfügbar, um Reflexionsverluste zu minimieren und die Transmission zu erhöhen. TECHSPEC® λ/4-Fenster aus UV-Quarzglas werden in optischen Bildgebungsanwendungen, in Laseranwendungen mit geringer oder mittlerer Leistung und als Schutzfenster für Anwendungen, die eine hohe UV-Transmission erfordern, eingesetzt.

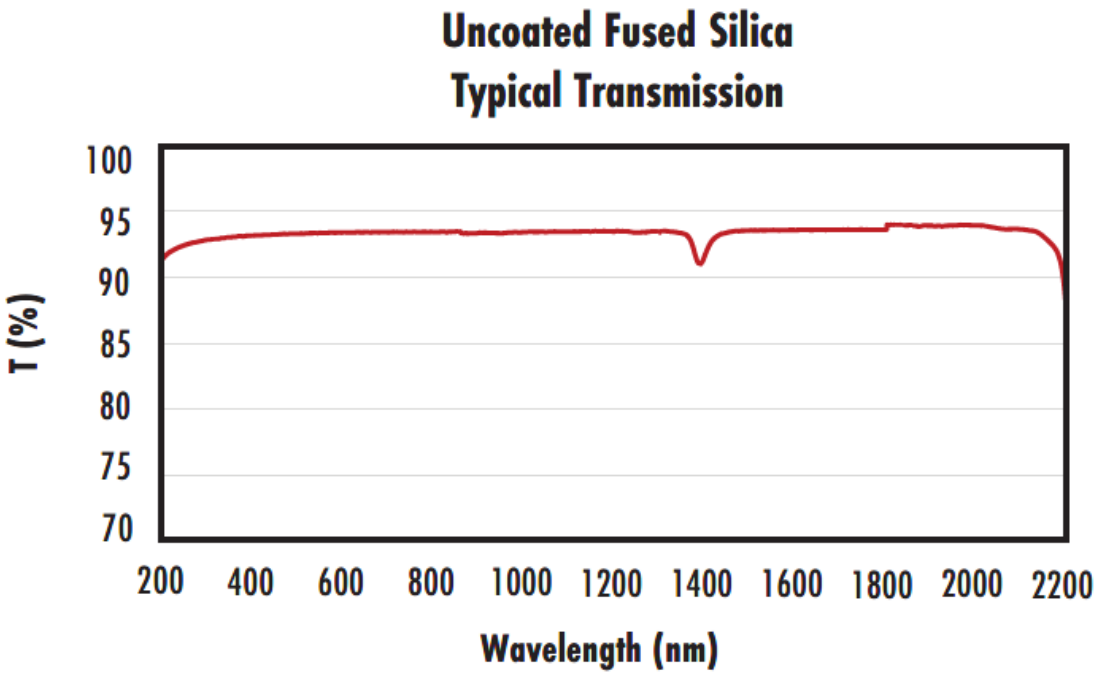
Technische Informationen







FUSED SILICA



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

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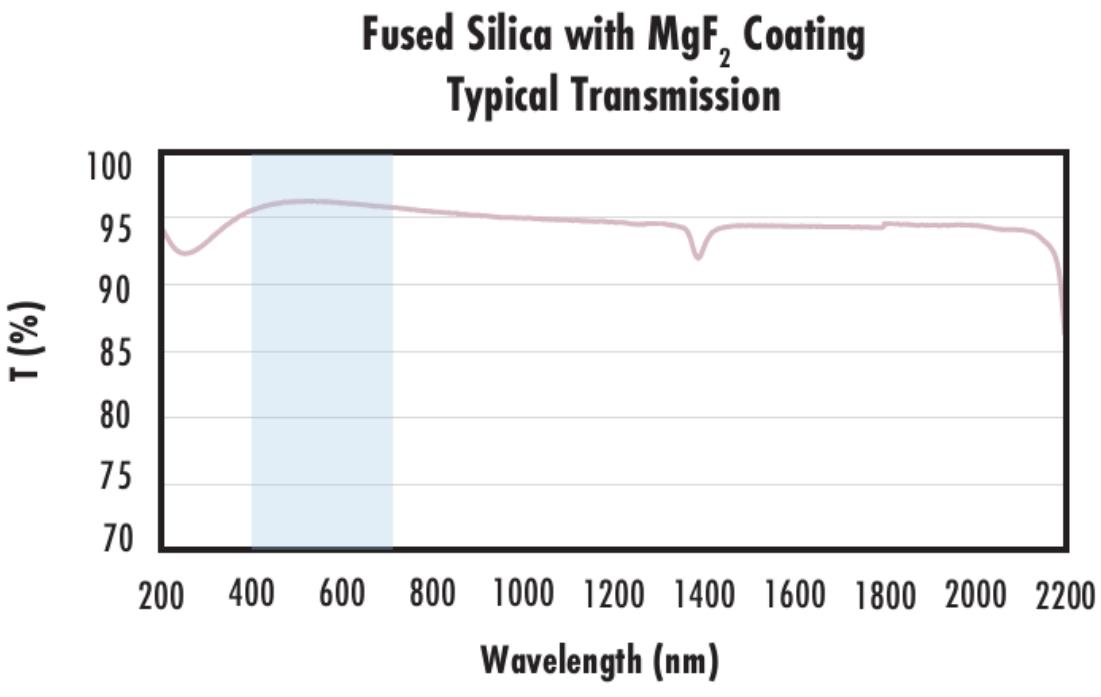

Typical transmission of a 3mm thick fused silica window with MgF2 (400-700nm) coating at 0° AOI.

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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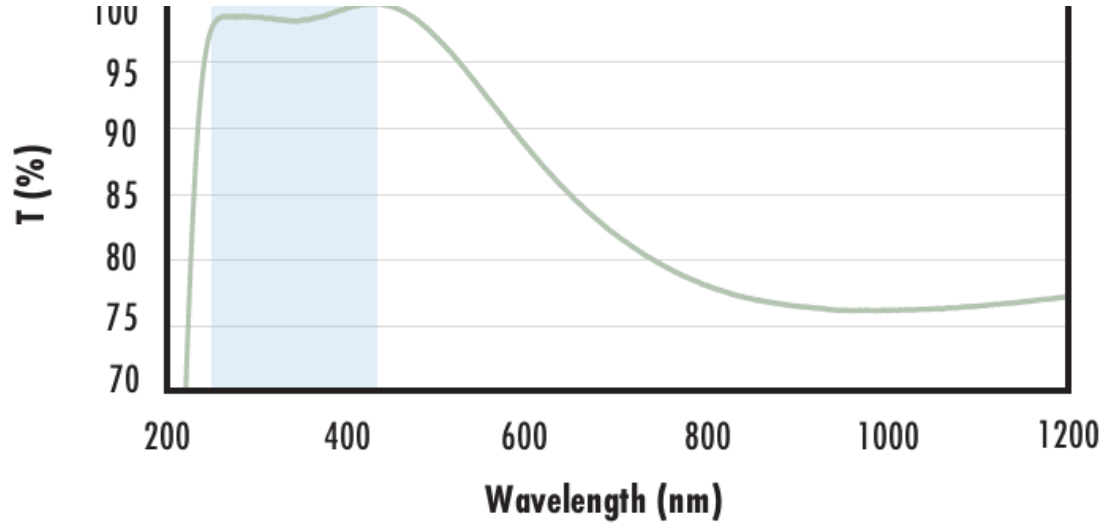

Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.

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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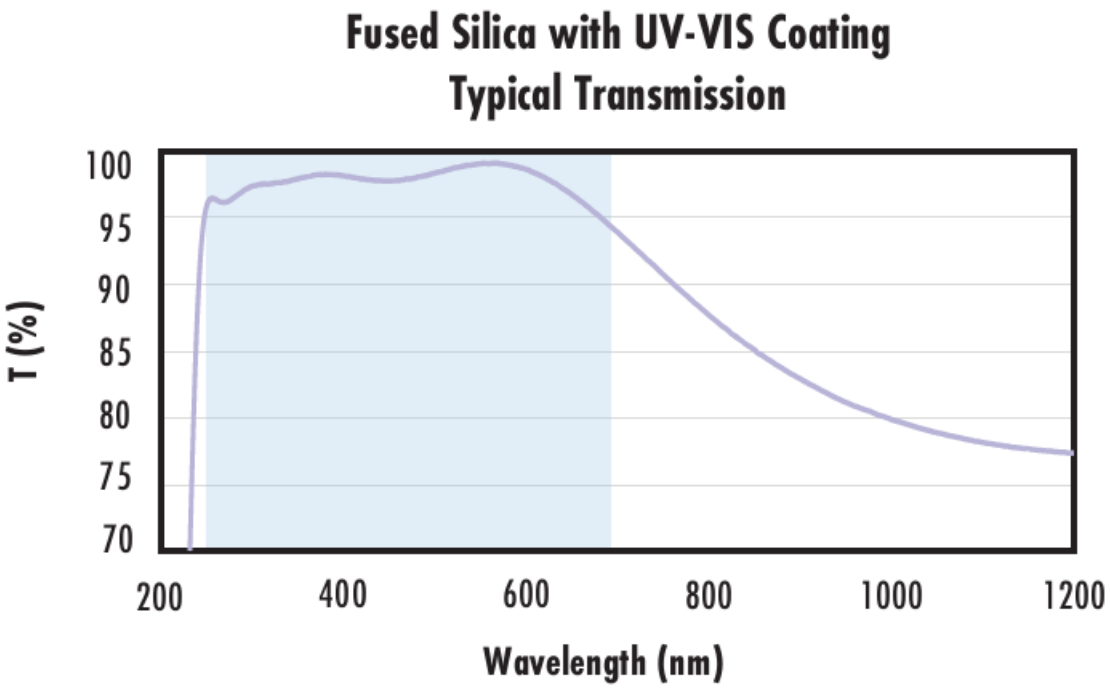

Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

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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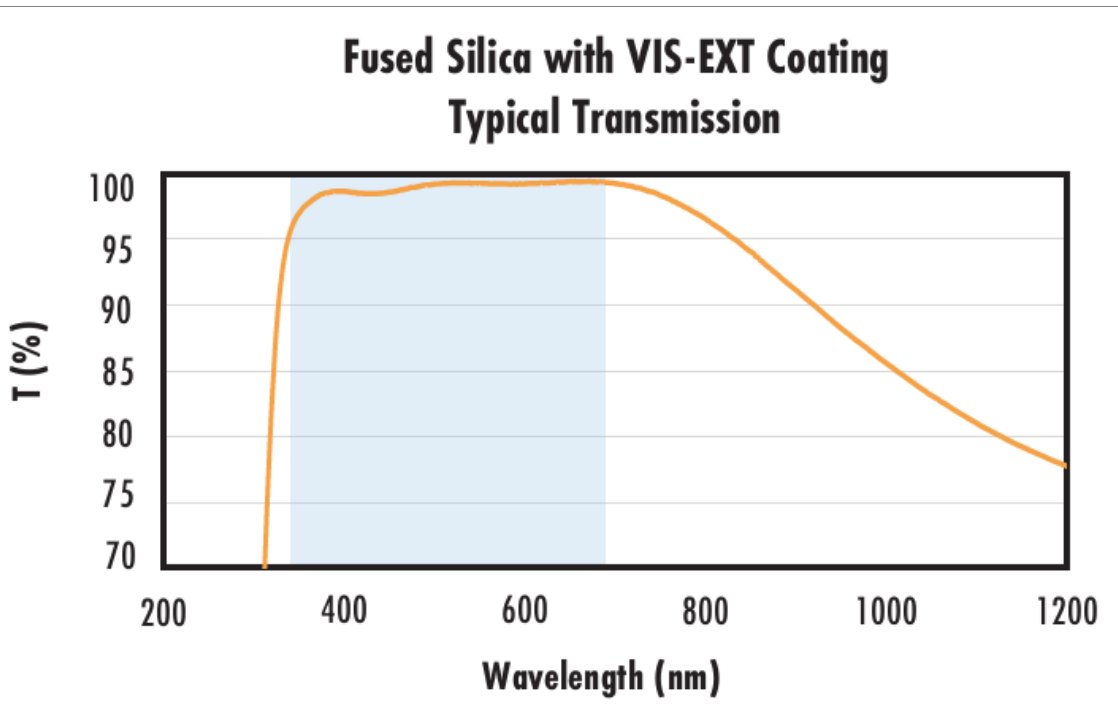

Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

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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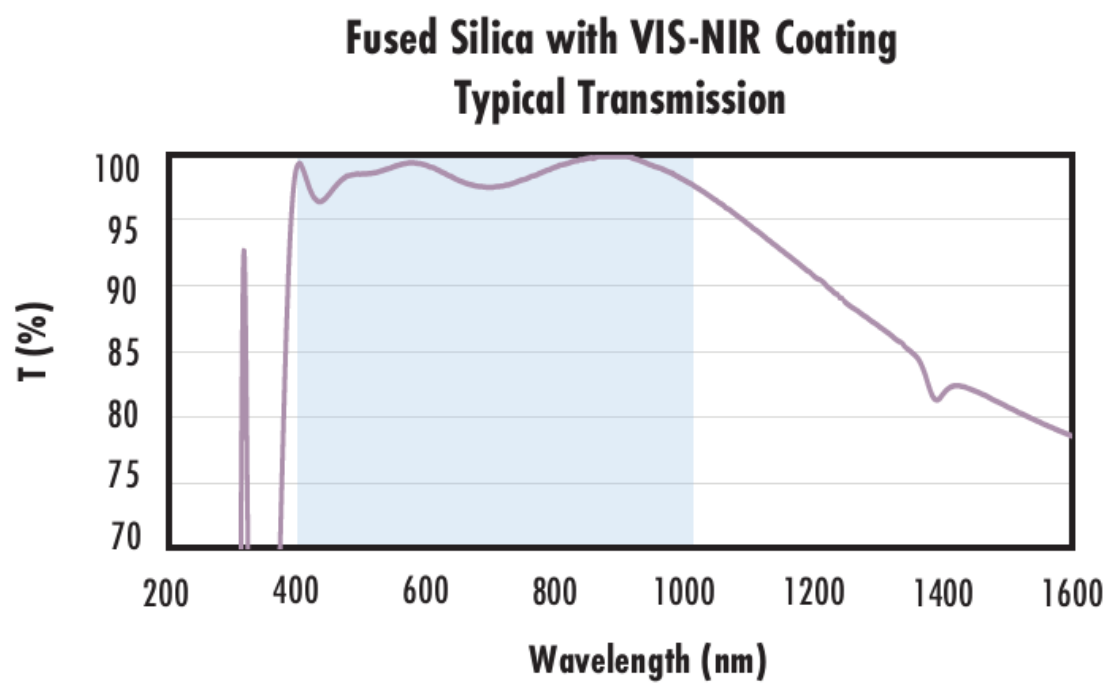

Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.

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

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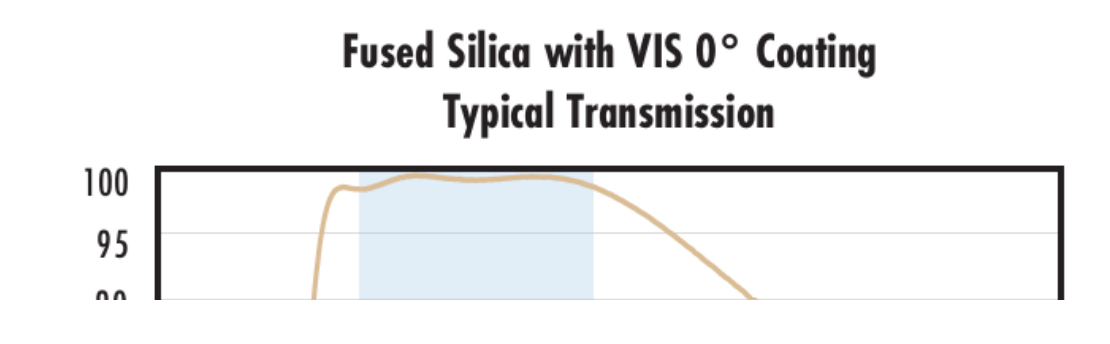
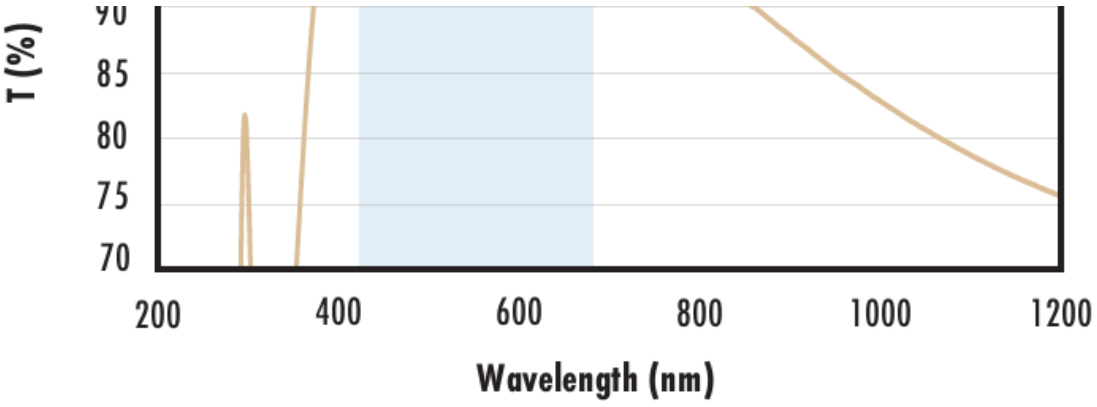


Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelengh



range, with the following specification:

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

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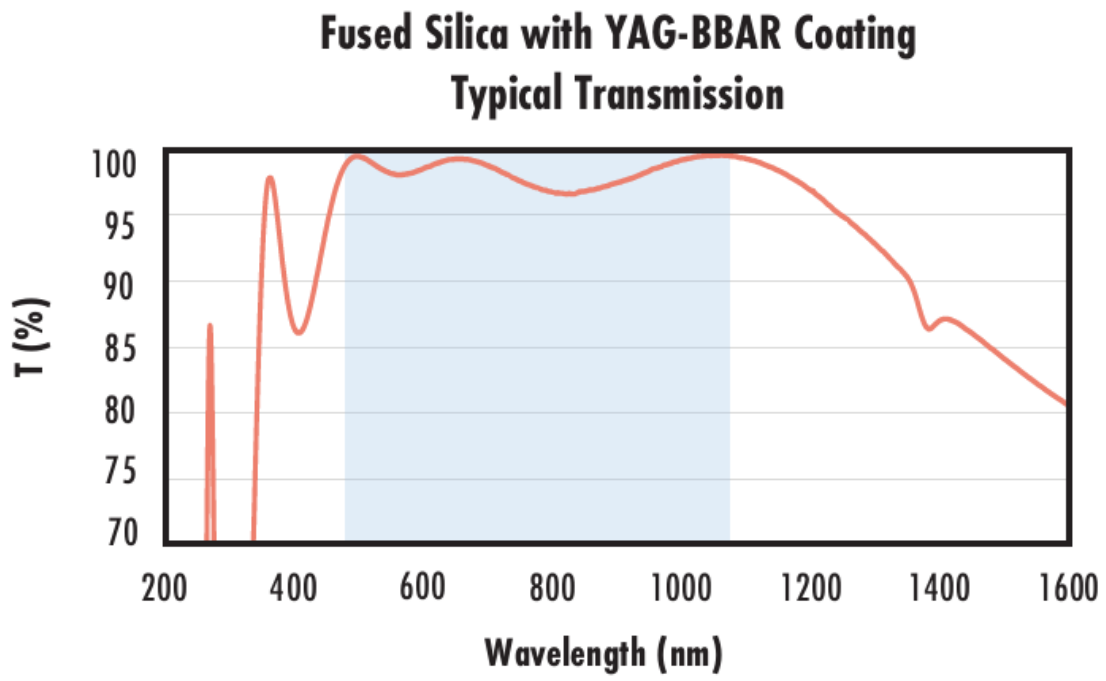

Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.

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

$R_{abs} \leq 0.25\%$ @ 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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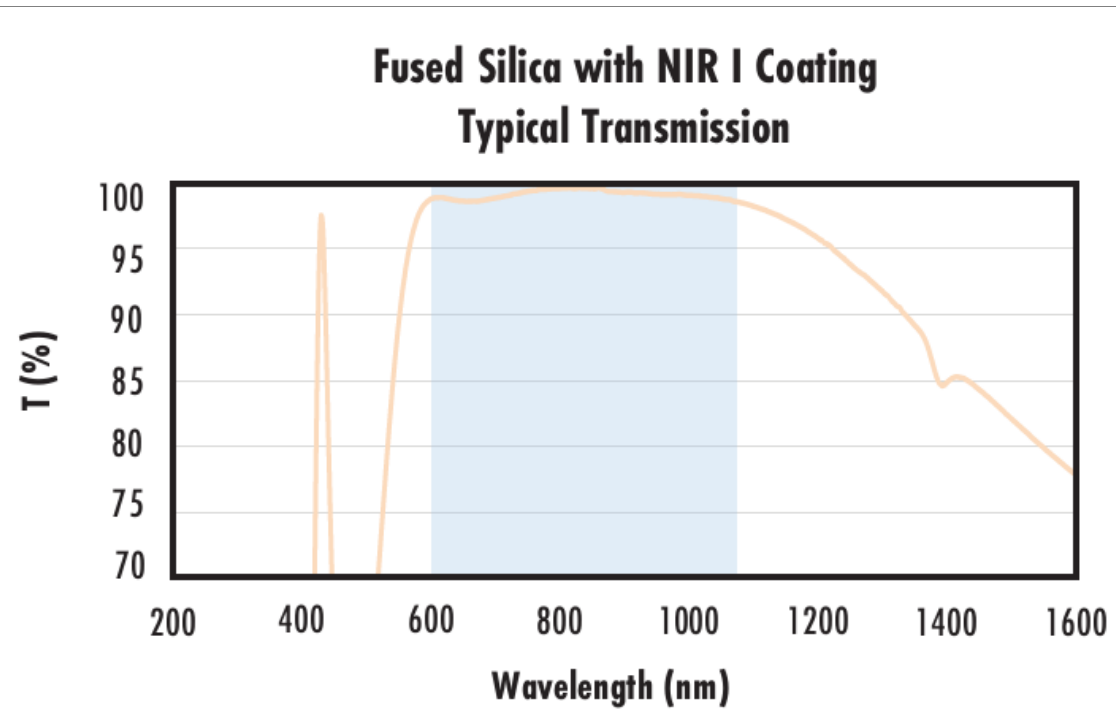

Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.

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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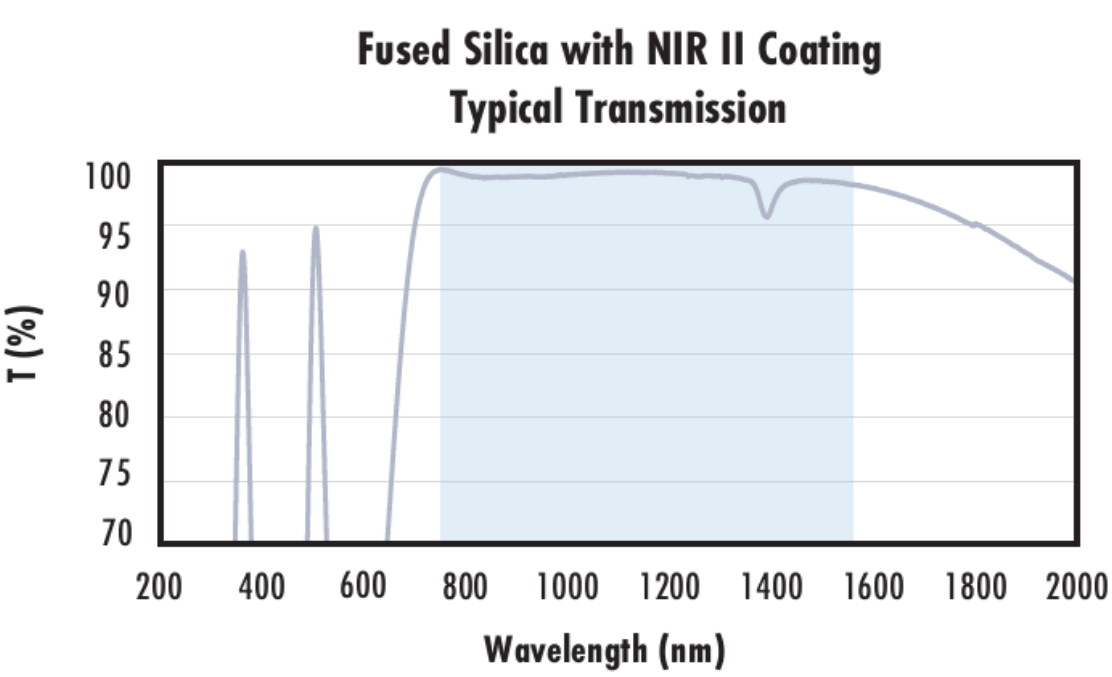

Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.

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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