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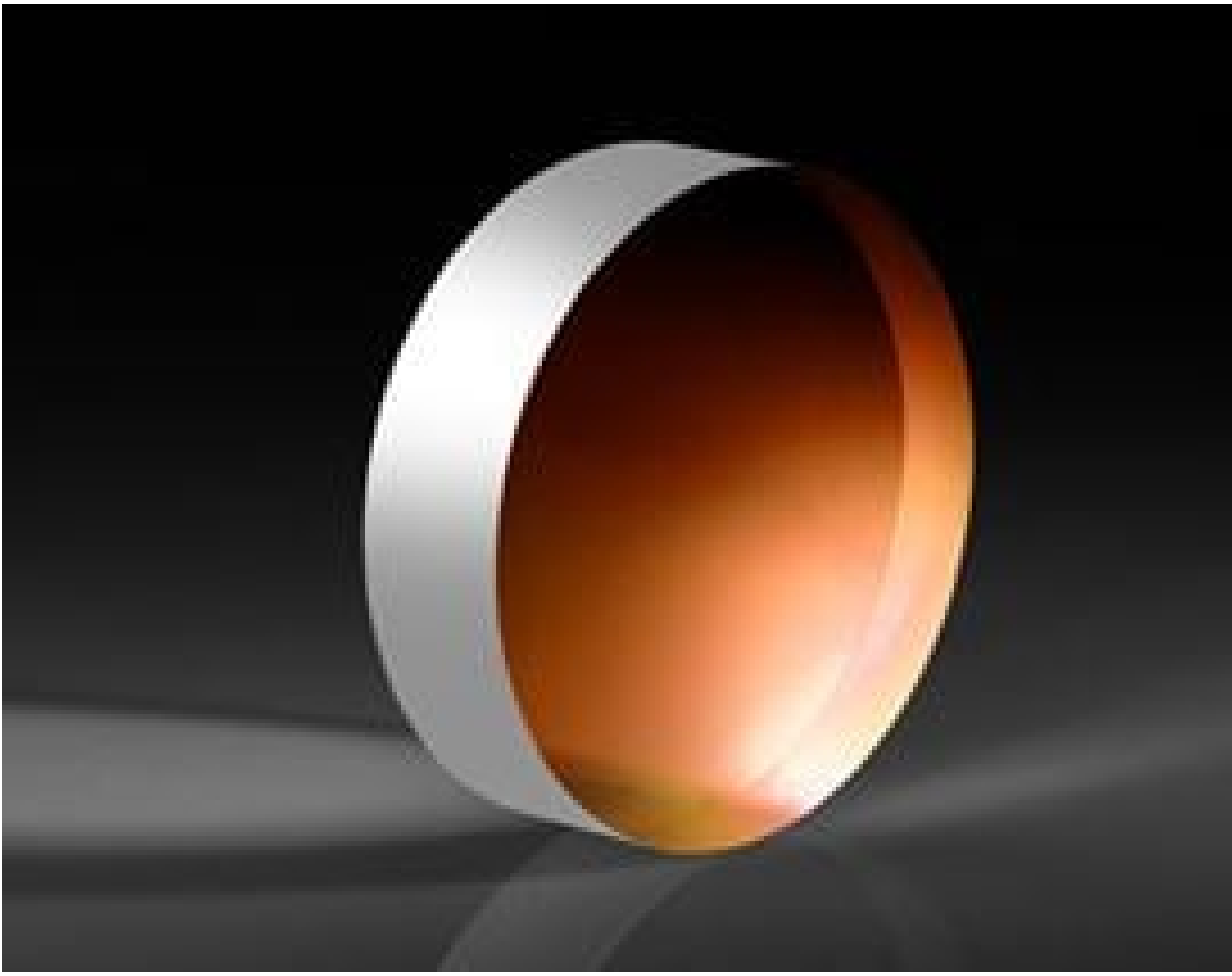
TECHSPEC® 50mm Dia, 5mm Épaisseur, λ/10 Fenêtre en Silice Fondue, traité UV-VIS



Stock **#48-069** **10 In Stock**

- 1 + **€319**.00

AJOUTER AU PANIER

Prix sur Quantité	
Qté 1-5	**€319,00** prix unitaire
Qté 6-25	**€255,00** prix unitaire
Qté 26-49	**€239,00** prix unitaire
Need More?	Demande de Devis

Les prix sont indiqués hors TVA et droits applicables.

Espace téléchargement

Caractéristiques du produit

Type:
Protective Window

Type of Window:
Glass

Propriétés physiques et mécaniques

Ouverture Utile CA (mm):
40.00

Diamètre (mm):
50.00 +0.00/-0.20

Épaisseur (mm):
5.00 ±0.10

Tolérance Dimensionelle (mm):
+0.00/-0.20

Biseau:
Protective as needed

Ouverture Utile (%):
80

Bords:
Fine Ground

Parallélisme (arcsec):
<5

Rapport de Poisson:
0.16

Module d'Élasticité de Young (GPa):
73

Dureté de Knoop (kg/mm^2):
522.00

Propriétés optiques

Traitement:
UV-VIS (250-700nm)

Substrat:
Fused Silica (Corning 7980)

Indice de Réfraction (n_d):
1.458

Qualité de Surface:
20-10

Front d'Onde Transmis, P-V:
λ/10

Nombre d'Abbe (v_d):
67.8

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

Gamme de Longeur d'Onde (nm):
250 - 700

Damage Threshold, Reference:
3 J/cm^2 @ 355nm, 10ns
5 J/cm^2 @ 532nm, 10ns

Propriétés des matériaux

Densité (g/cm^3):
2.20

Coéfficient d'Expansion Thermique CTE (10^{-6}/°C):
0.52 (+5 to +35°C)
0.57 (0 to +200°C)
0.48 (-100 to +200°C)

Fused Silica Grade:
7980 0G

Conformité réglementaire

RoHS 2015:
Conforme

Certificate of Conformance:
Visionner

Reach 235:
Conforme

Besoin de spécifications différentes ou de modifications ?

Edmund Optics propose des services complets de fabrication personnalisée de composants optiques et d'imagerie adaptés aux exigences de vos applications spécifiques. Qu'il s'agisse de la phase de prototypage ou de la préparation d'une production à grande échelle, nous proposons des solutions flexibles pour répondre à vos besoins. Nos ingénieurs expérimentés sont là pour vous aider, de la conception à la réalisation.

Nos capacités comprennent :

- Dimensions, matériaux, traitements, etc. personnalisés
- Qualité de surface et planéité de surface de haute précision
- Tolérances serrées et géométries complexes
- Production évolutive – du prototype à la série

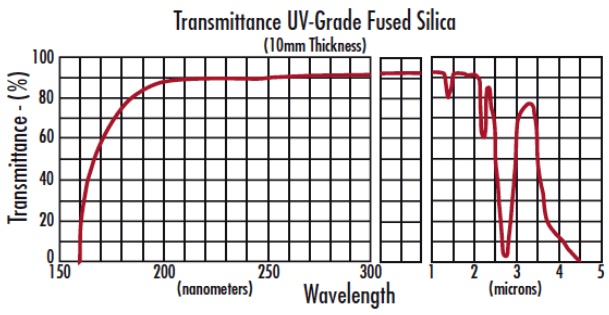
En savoir plus sur nos capacités de fabrication sur mesure ou soumettre une demande ici.

Description produit

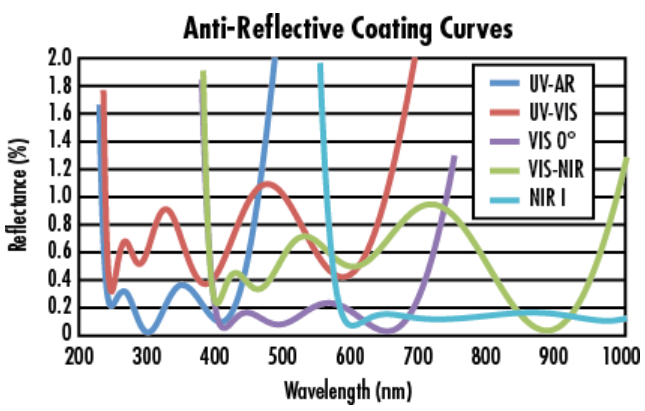
- Versions traitées antireflets UV-VIS et UV disponibles
- Distorsion du front d'onde transmis λ/10
- Dimensions allant de 5 à 150 mm de diamètre
- Fenêtres en Silice Fondue **1λ** ou **λ/4** également disponibles

Nos Fenêtres λ/10 en Silice Fondue UV TECHSPEC® se caractérisent par un parallélisme et une qualité de surface indice laser. Par ailleurs, ces fenêtres limiteront la distorsion du front d'onde transmis à λ/10. Les caractéristiques de transmission supérieures, les excellentes propriétés thermiques et les spécifications de fabrication haute tolérance font de ces fenêtres un excellent choix pour les applications plus exigeantes. Les Fenêtres λ/10 en Silice Fondue UV TECHSPEC sont disponibles dans des tailles allant de 5 à 150 mm de diamètre. Ces fenêtres sont offertes sans traitement ou avec des traitements anti-reflets optimisés pour le spectre UV ou visible.

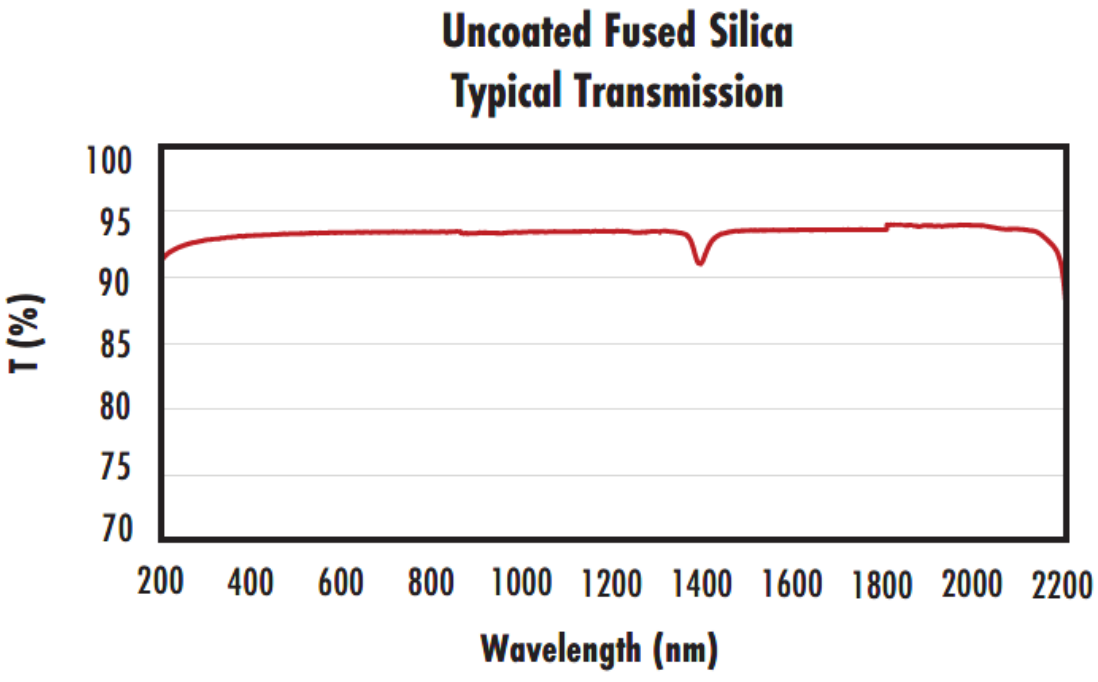
Informations techniques



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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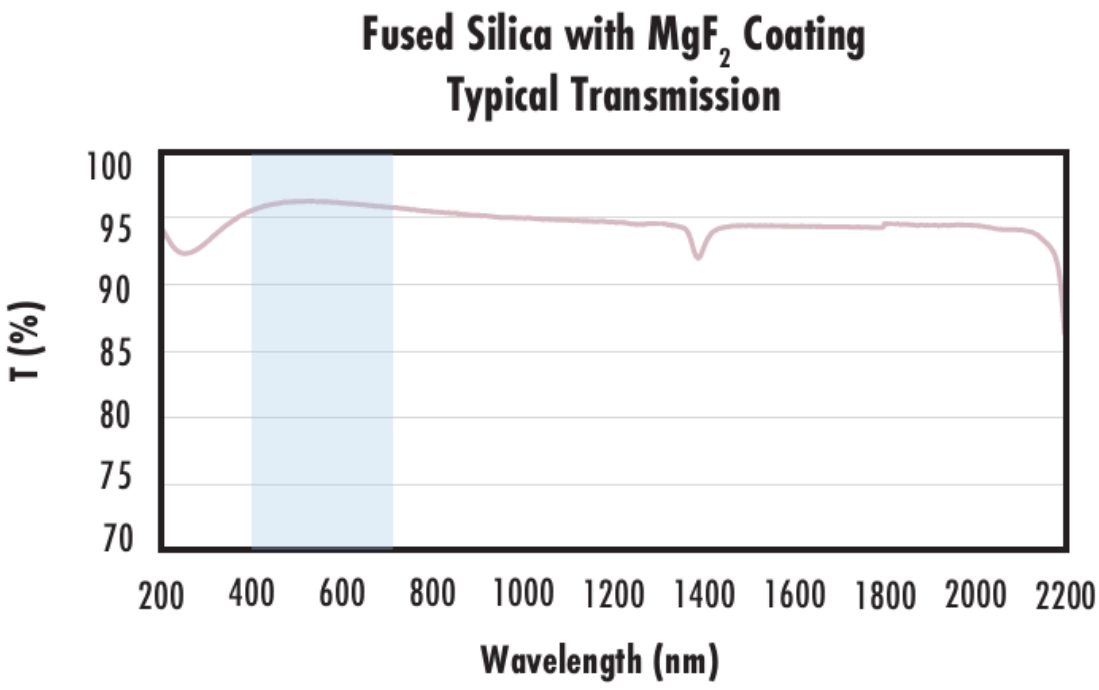

Typical transmission of a 3mm thick fused silica window with MgF2 (400-700nm) coating at 0° AOI.

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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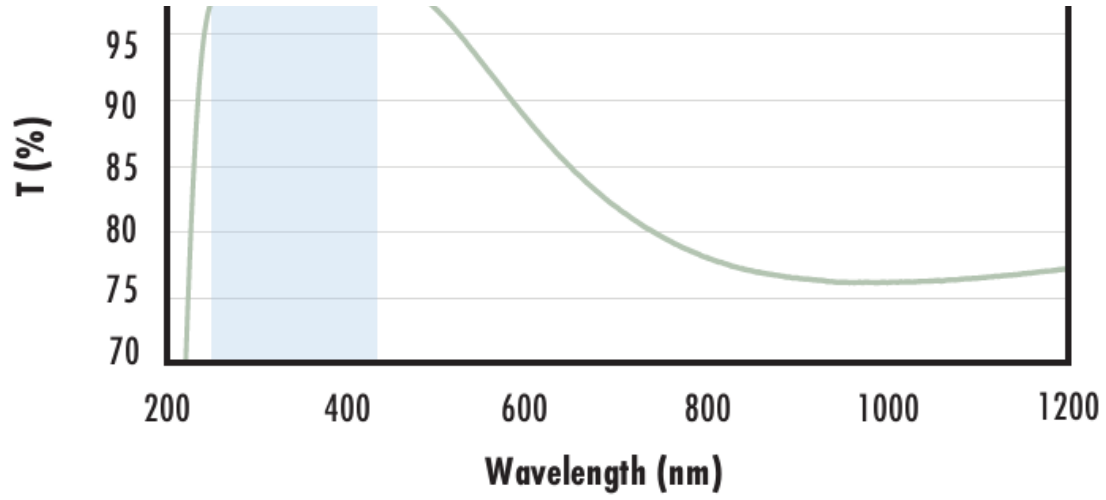

Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.

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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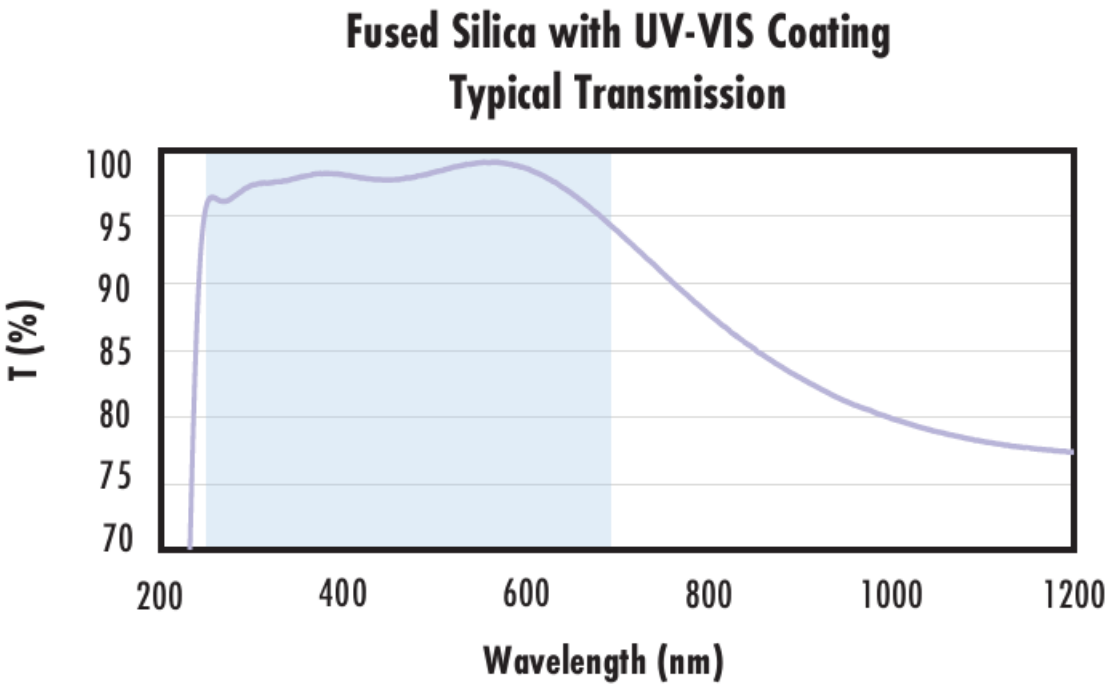

Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

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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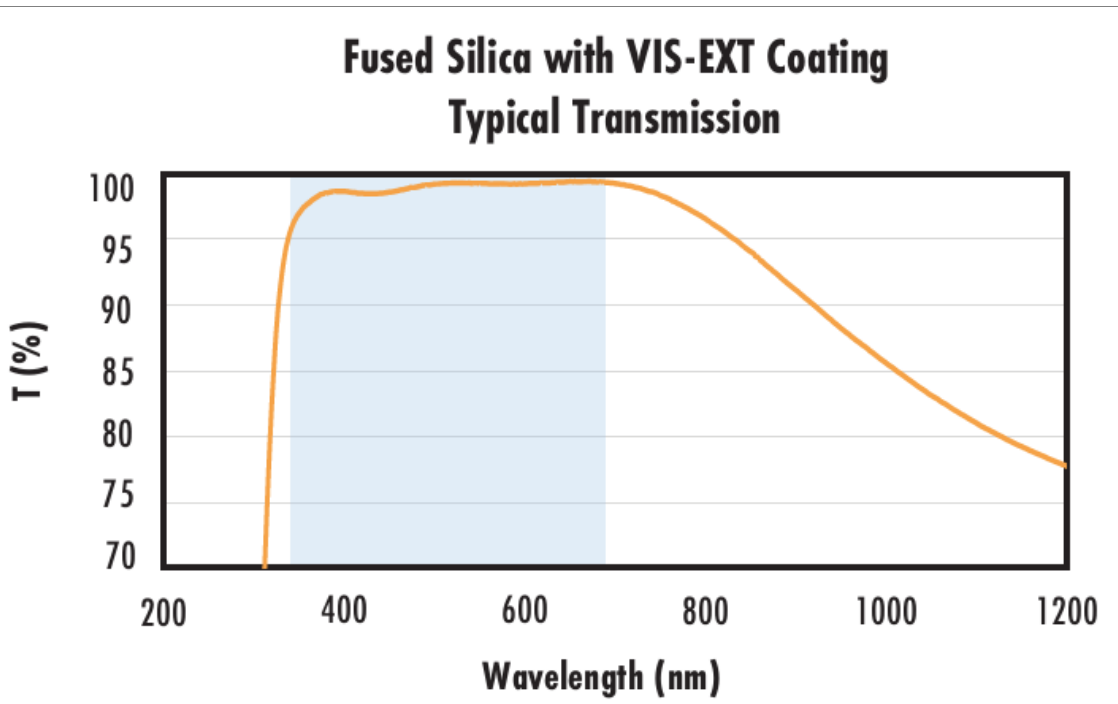

Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

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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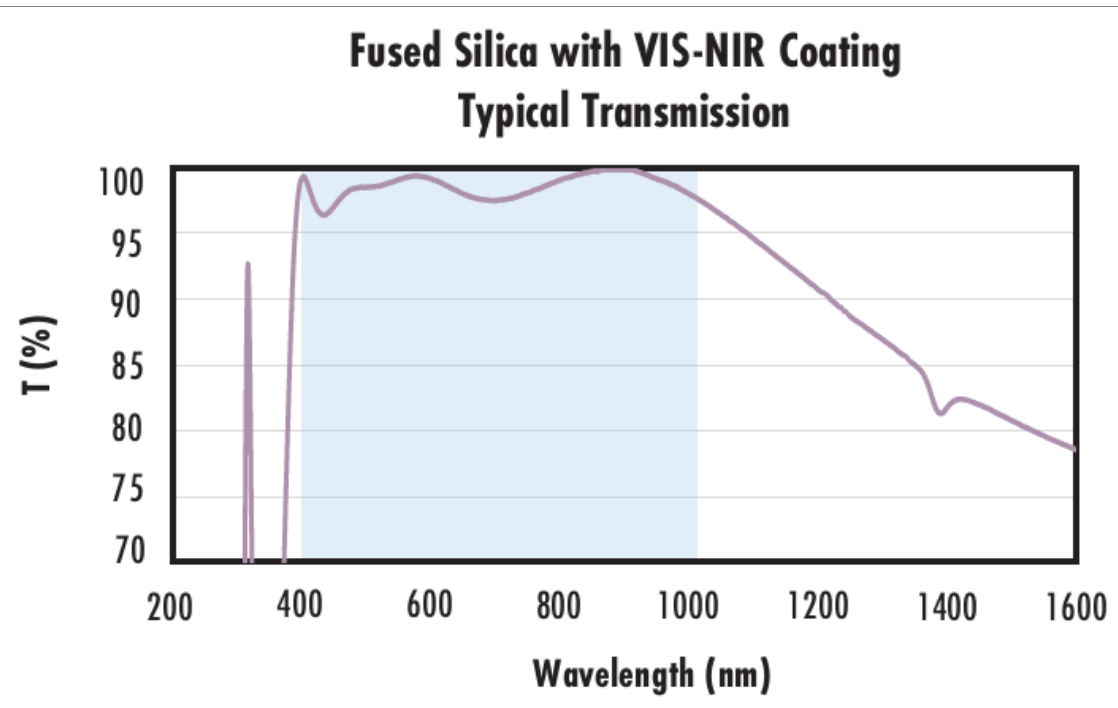

Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.

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

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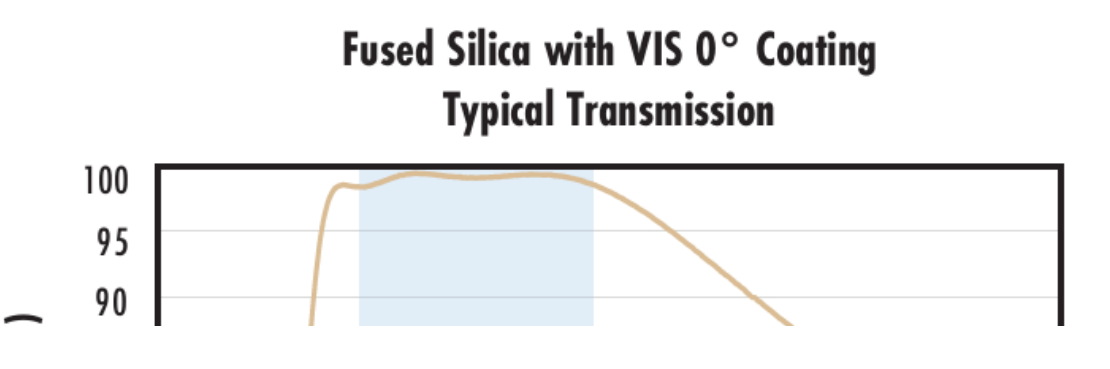
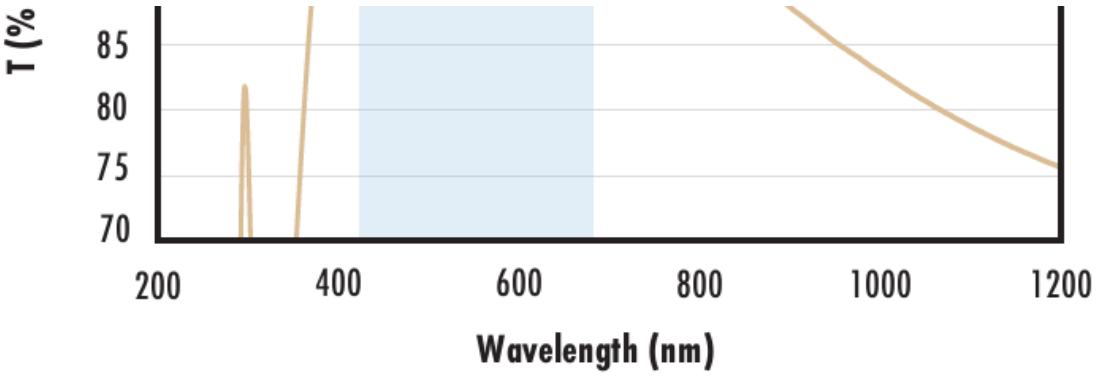


Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

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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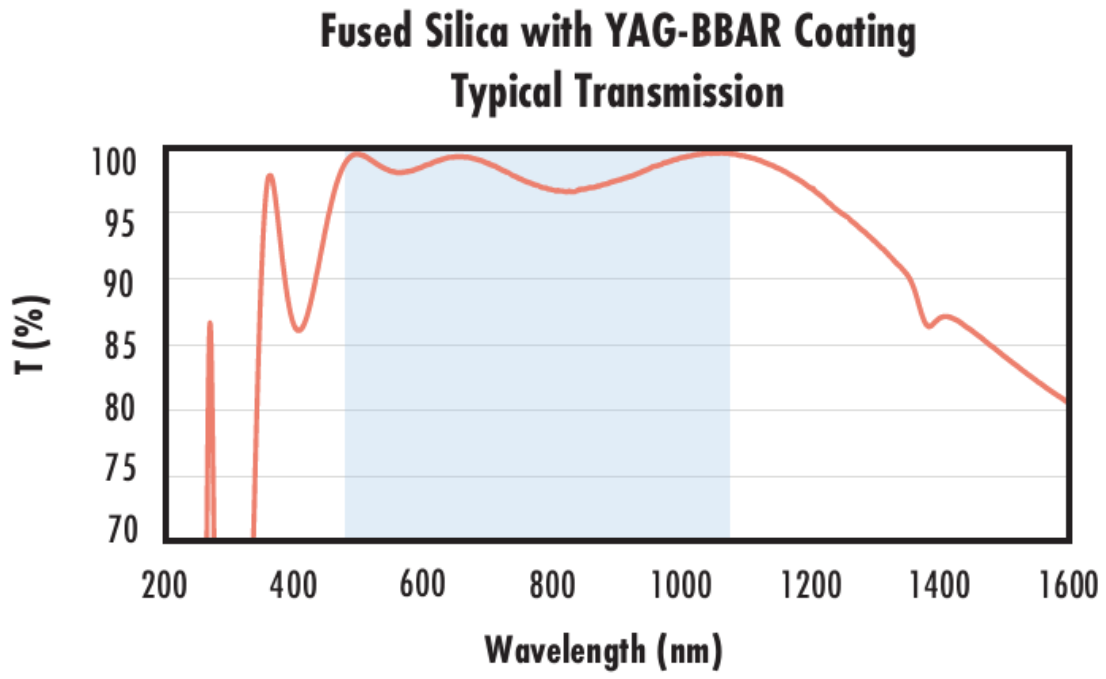

Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.

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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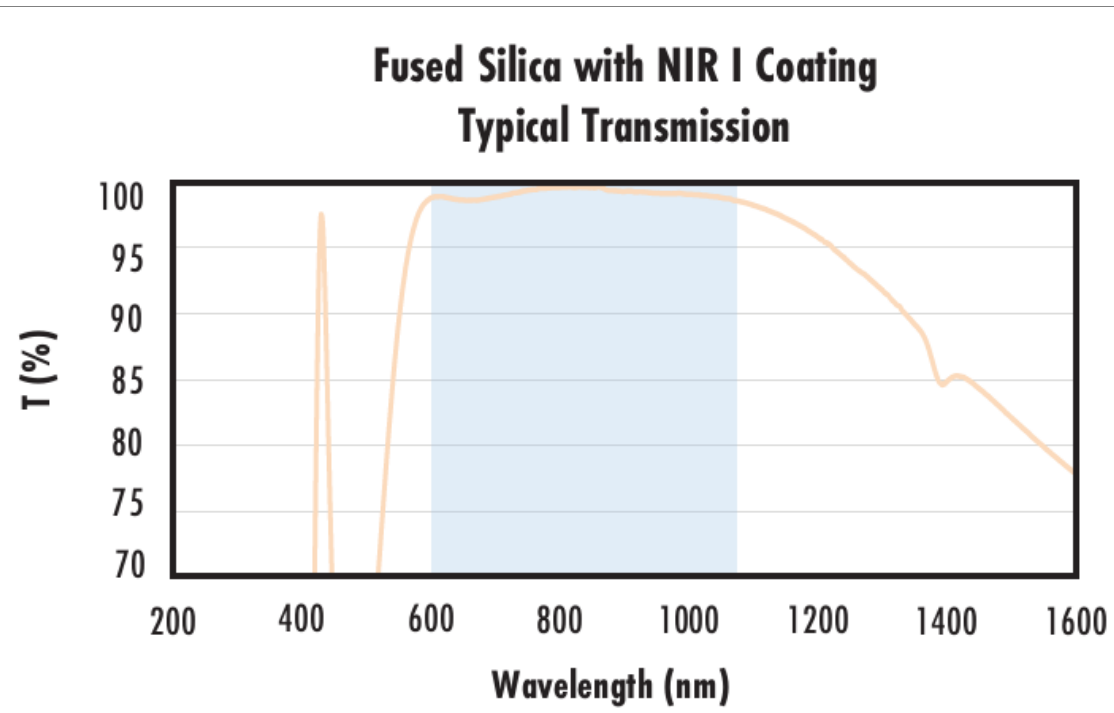

Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.

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

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

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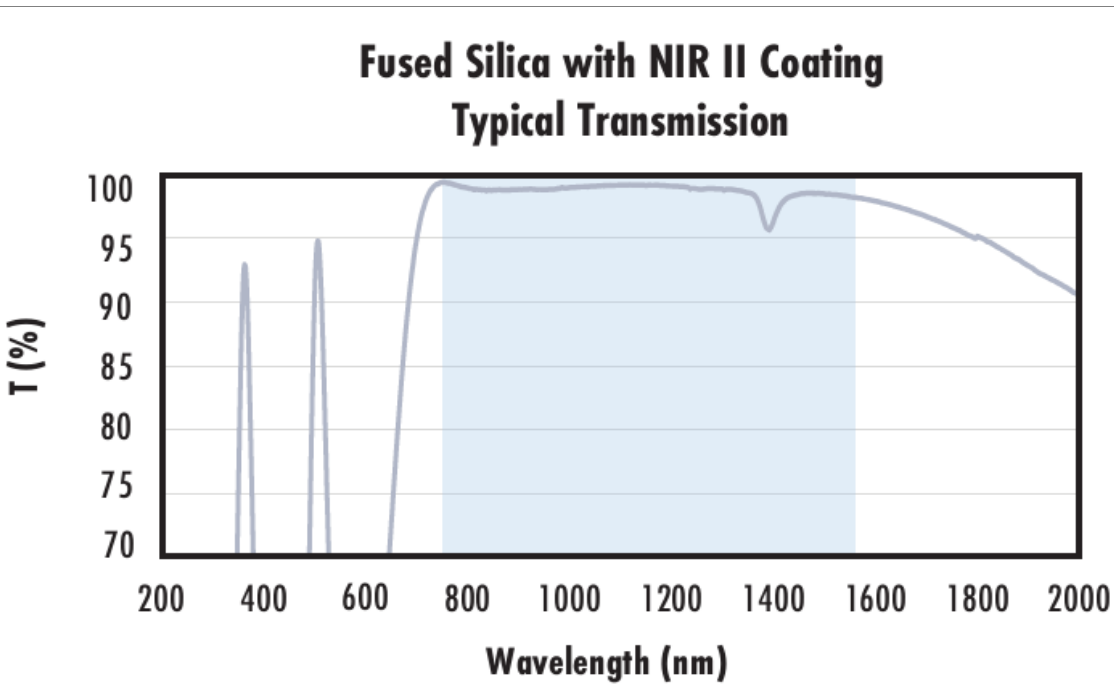

Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.

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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Montures compatibles

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