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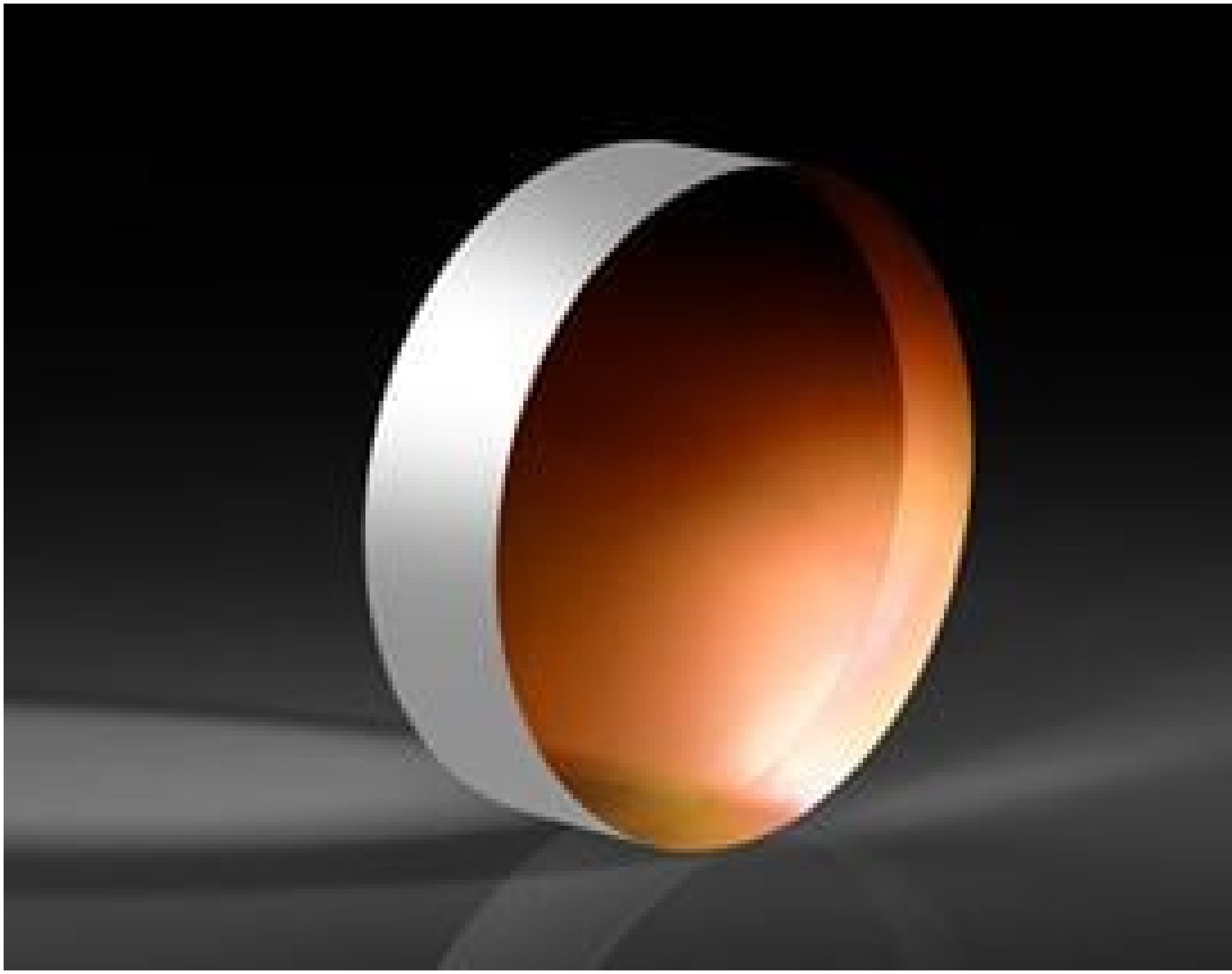
# TECHSPEC® 50mm Dia, 3mm Épaisseur, λ/10 Fenêtre en Silice Fondue, non traité



Stock **#34-601** **20+ In Stock**

- 1 + **€280.00**

**AJOUTER AU PANIER**

| Prix sur Quantité | |
|---|---|
| Qté 1-5 | **€280,00** prix unitaire |
| Qté 6-25 | **€223,00** prix unitaire |
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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):**
3.00 ±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:**
Uncoated

**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

**Gamme de Longeur d'Onde (nm):**
200 - 2200

## 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

**REACH 201:**
Conforme

**Certificate of Conformance:**
Visionner

## 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.

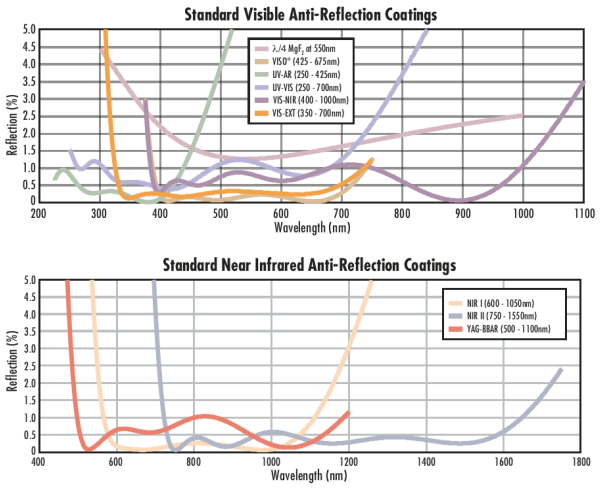
# Description produit

- 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.

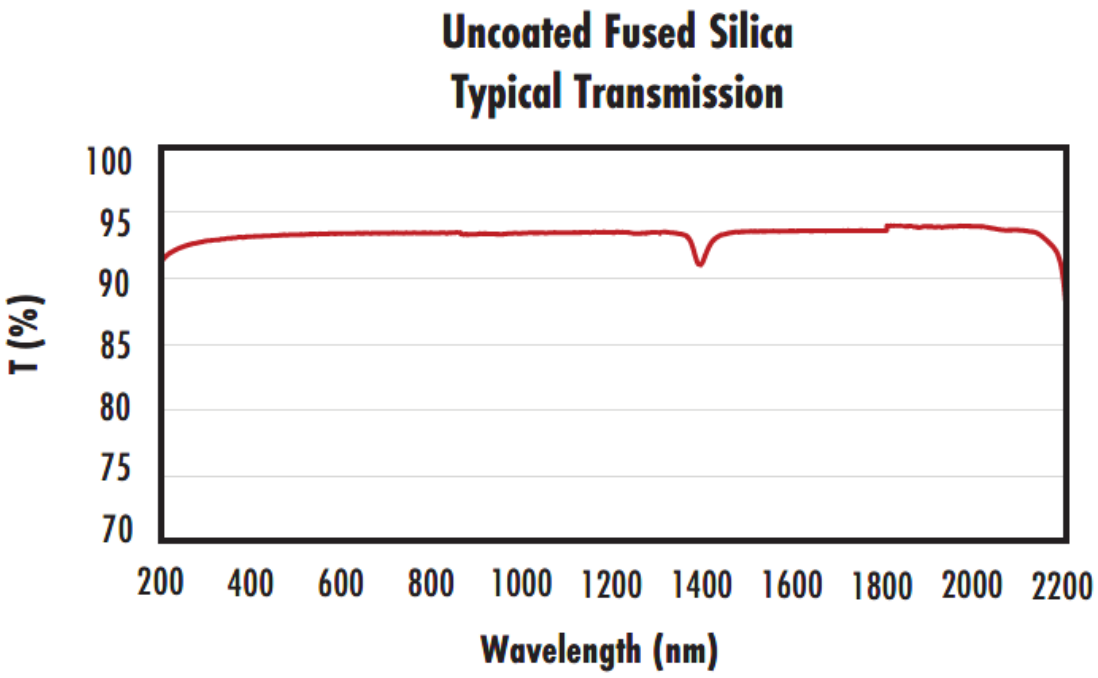
# Informations techniques







## FUSED SILICA




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

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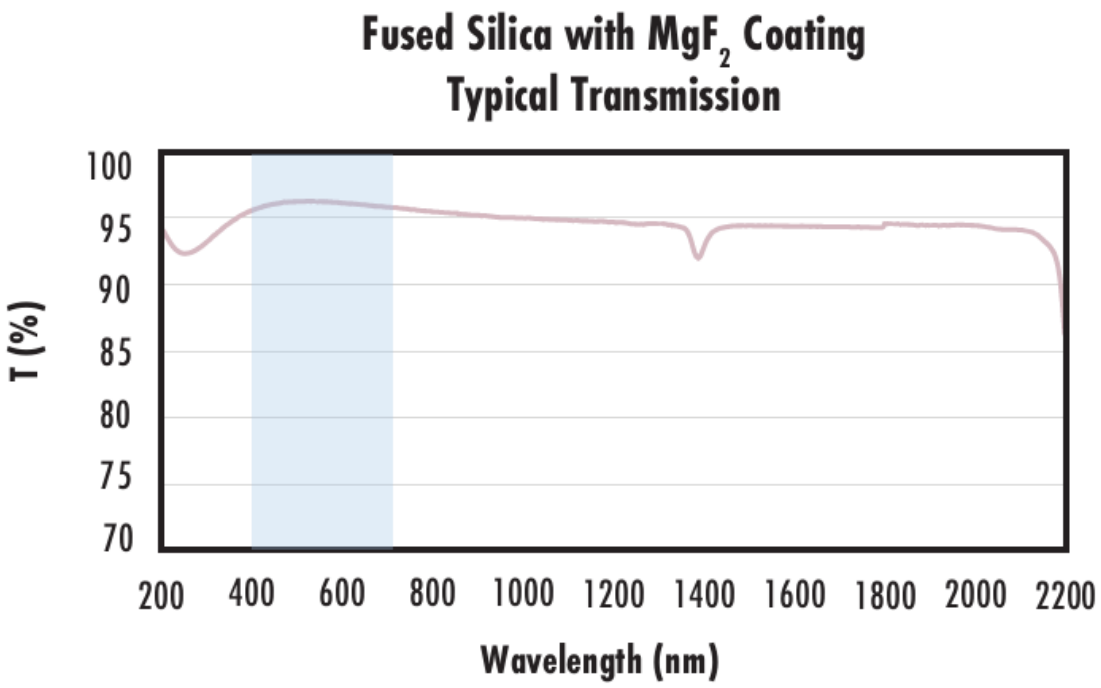


Typical transmission of a 3mm thick fused silica window with MgF2 (400-700nm) coating at 0° AOI.

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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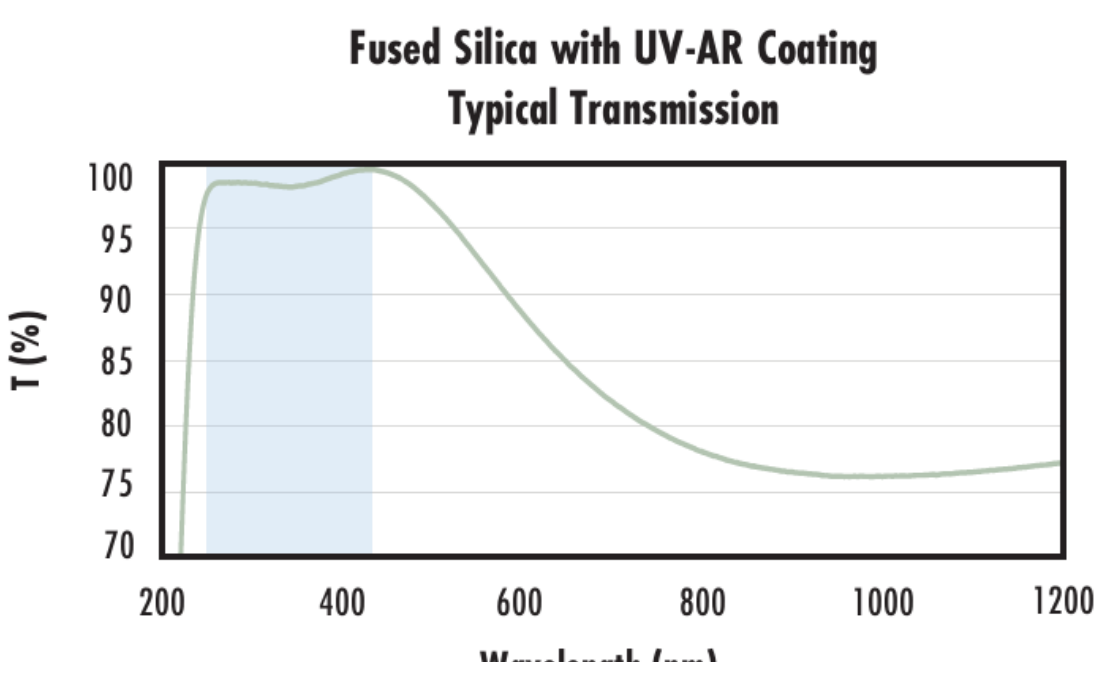


Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.

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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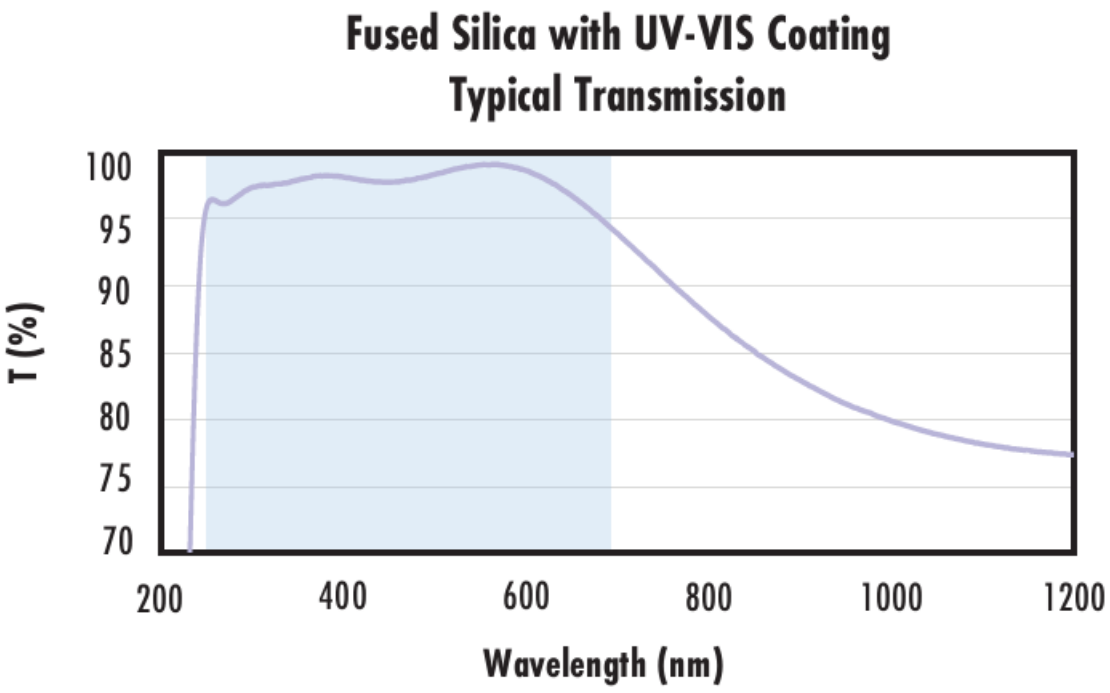
Wavelength (nm)




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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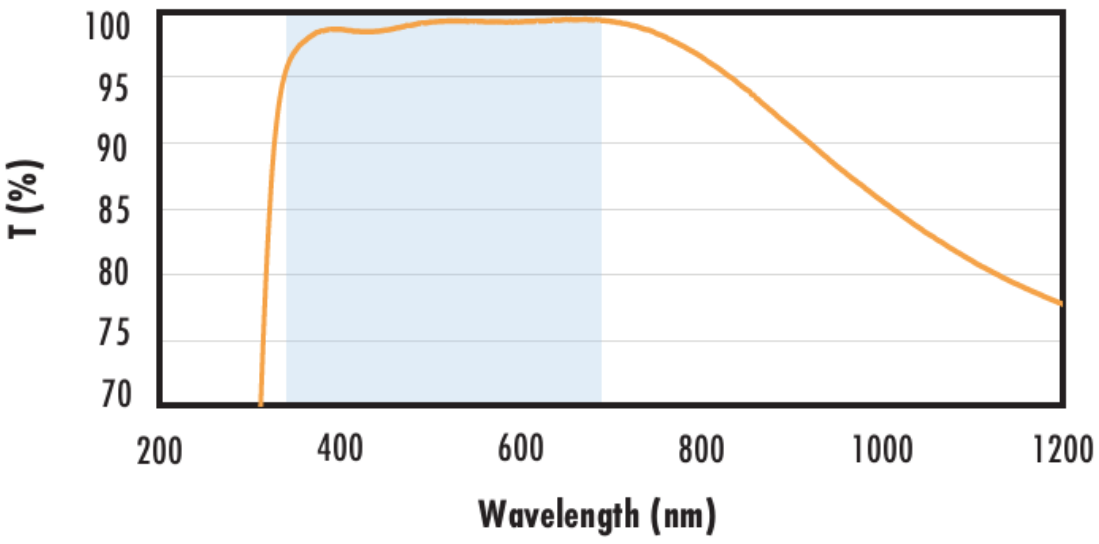


Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

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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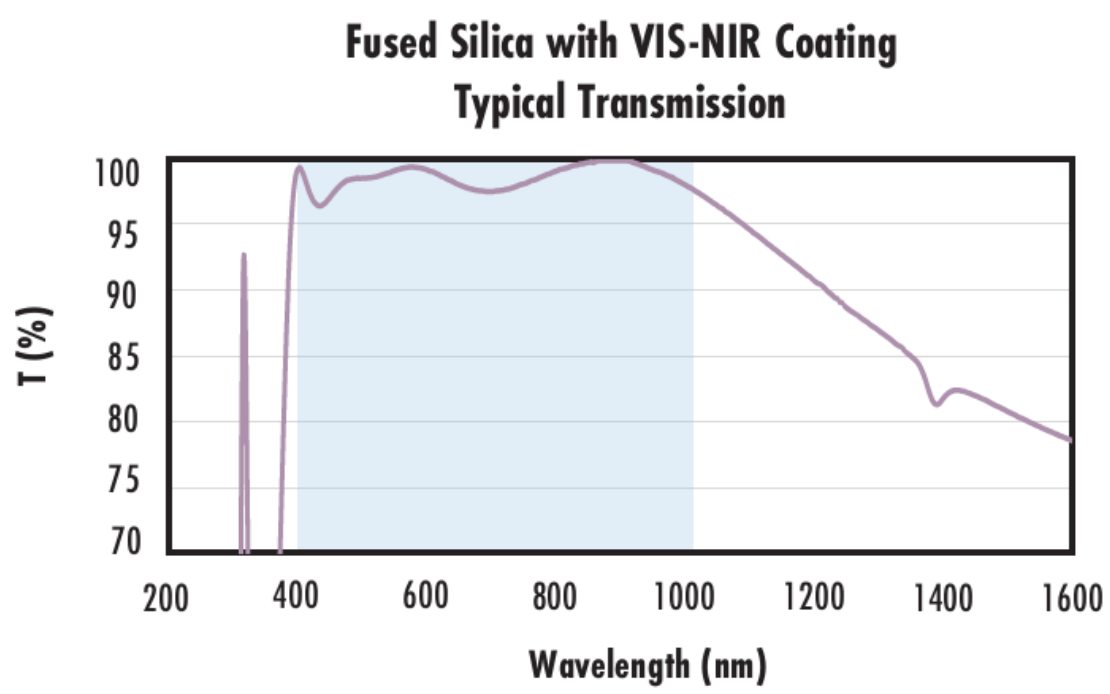


Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.

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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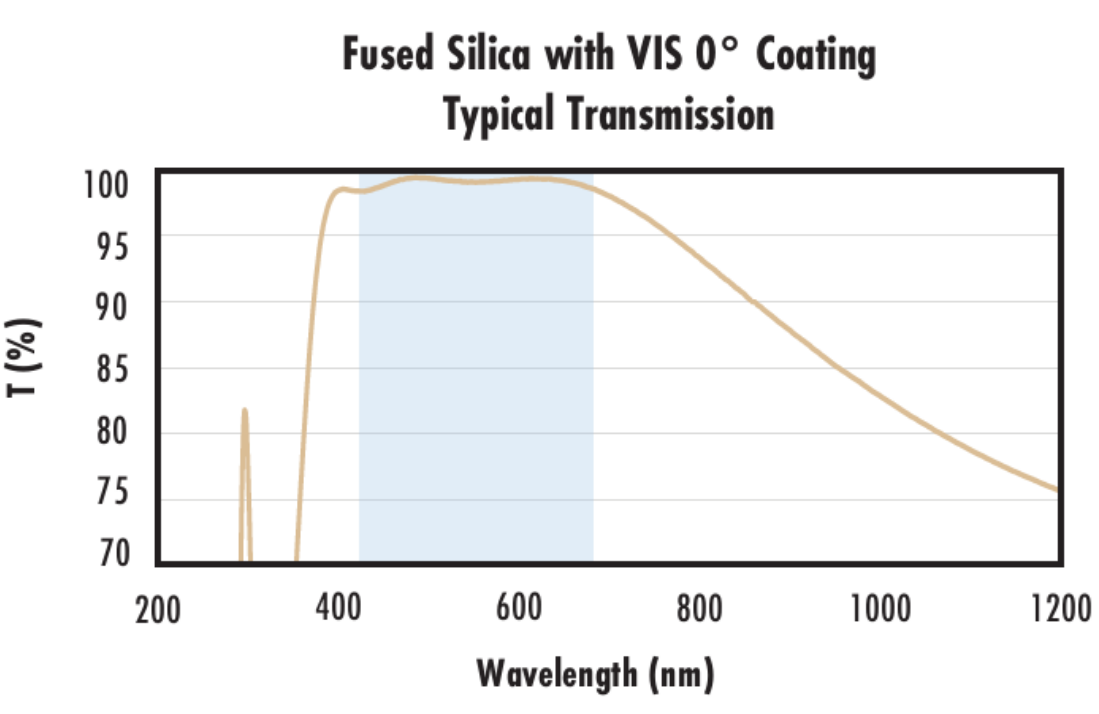


Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

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

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

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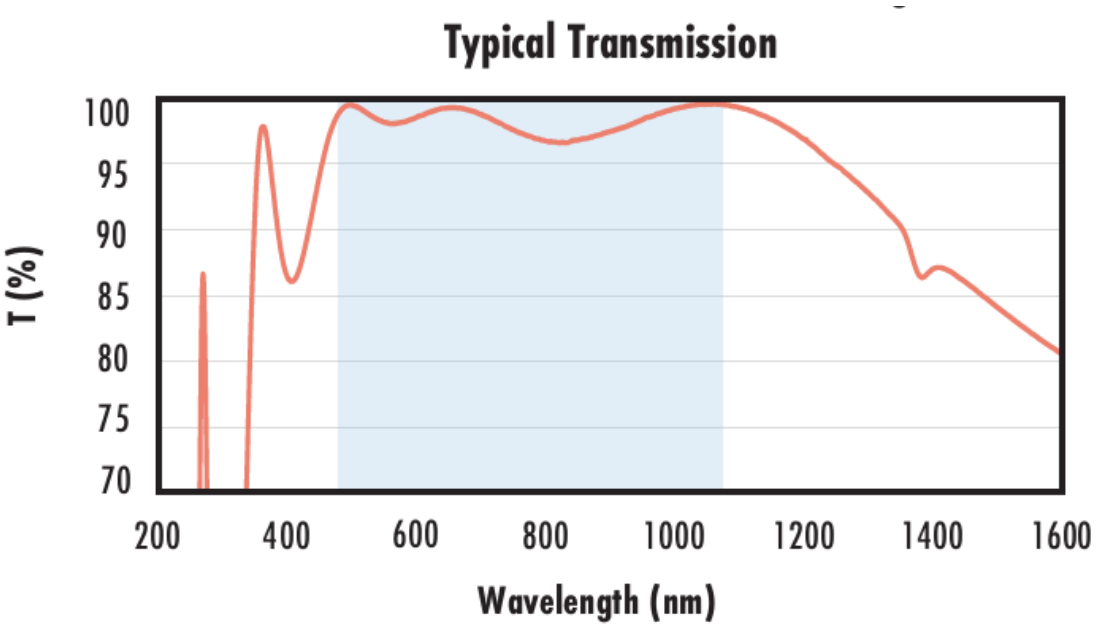
Fused Silica with YAG-BBAR Coating




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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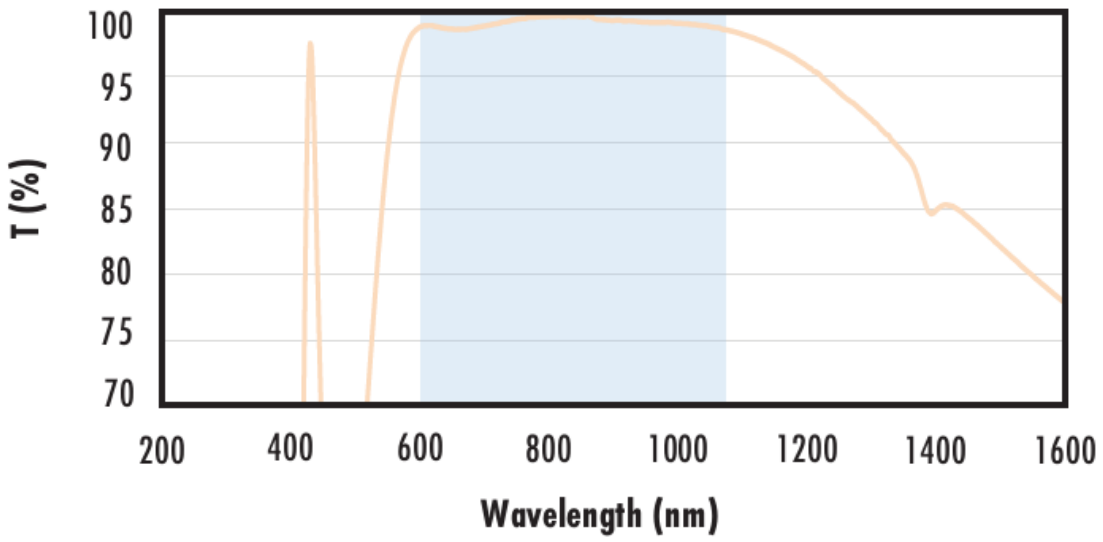


Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.

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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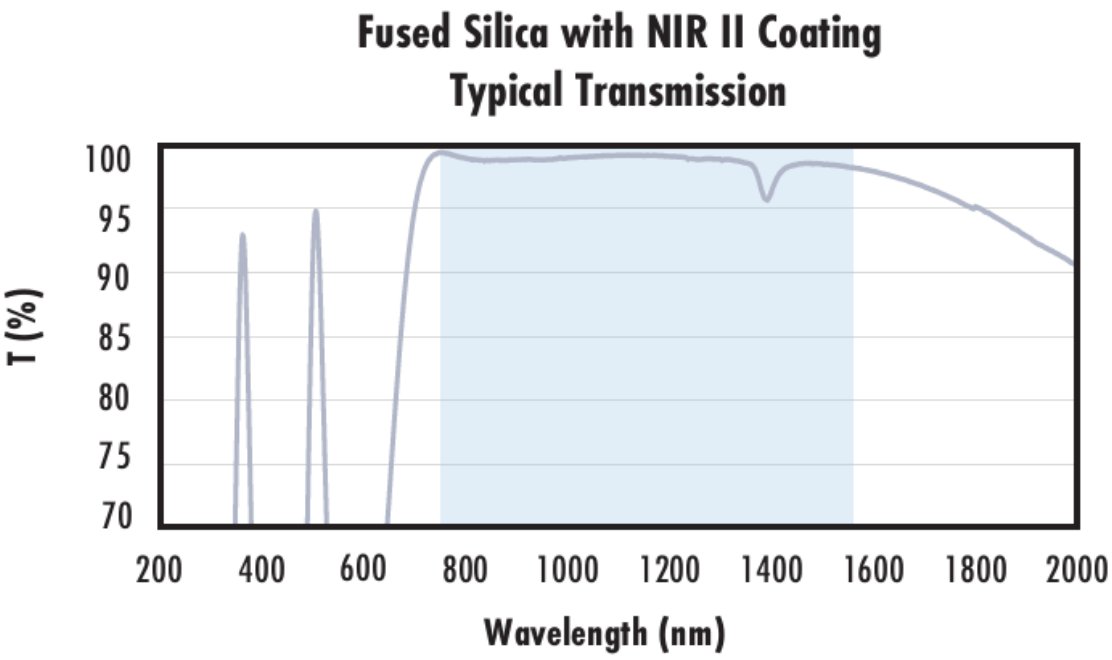


Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.

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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## Montures compatibles

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