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TECHSPEC<sup>®</sup> Fenêtre 1λ en Silice Fondue Traitée MgF<sub>2</sub>, 25,4 mm de dia., 4 mm d'épaisseur



TECHSPEC® 1λ UV Fused Silica Windows

Stock **#25-322** **5 In Stock**

-

1

+

€101<sup>00</sup>

AJOUTER AU PANIER

| Prix sur Quantité |                                  |
|-------------------|----------------------------------|
| Qté 1-5           | €101,00 prix unitaire            |
| Qté 6-25          | €81,00 prix unitaire             |
| Qté 26-49         | €76,00 prix unitaire             |
| Need More?        | <a href="#">Demande de Devis</a> |

ⓘ Les prix sont indiqués hors TVA et droits applicables.

Espace téléchargement

195.00

#Sorting:

Caractéristiques du produit

Protective Window

Type:

Propriétés physiques et mécaniques

Ouverture Utile CA (mm):

|                      |                                     |
|----------------------|-------------------------------------|
| 22.86                |                                     |
| 25.40 +0.00/-0.20    | Diamètre (mm):                      |
| 4.00 ±0.38           | Épaisseur (mm):                     |
| <5                   | Parallélisme (arcmin):              |
| Protective as needed | Biseau:                             |
| 90                   | Ouverture Utile (%):                |
| Fine Ground          | Bords:                              |
| 0.16                 | Rapport de Poisson:                 |
| 73                   | Module d'Élasticité de Young (GPa): |
| 522.00               | Dureté de Knoop (kg/mm²):           |

## Propriétés optiques

|                                             |                                         |
|---------------------------------------------|-----------------------------------------|
| MgF <sub>2</sub> (400-700nm)                | Traitement:                             |
| <a href="#">Fused Silica</a> (Corning 7980) | Substrat: □                             |
| 1.458                                       | Indice de Réfraction (n <sub>d</sub> ): |
| 60-40                                       | Qualité de Surface:                     |
| 1λ                                          | Front d'Onde Transmis, P-V:             |
| 67.8                                        | Nombre d'Abbe (v <sub>d</sub> ):        |
| R <sub>avg</sub> ≤1.75% @ 400 - 700nm       | Spécification du Traitement:            |
| 400 - 700                                   | Gamme de Longueur d'Onde (nm):          |

|                                    |                              |
|------------------------------------|------------------------------|
| 10 J/cm <sup>2</sup> @ 532nm, 10ns | Damage Threshold, By Design: |
|------------------------------------|------------------------------|

## Propriétés des matériaux

|                                                                   |                                                               |
|-------------------------------------------------------------------|---------------------------------------------------------------|
| 2.20                                                              | Densité (g/cm³):                                              |
| 0.52 (+5 to +35°C)<br>0.57 (0 to +200°C)<br>0.48 (-100 to +200°C) | Coefficient d'Expansion Thermique CTE (10 <sup>-6</sup> /°C): |

## Conformité réglementaire

|                           |                             |
|---------------------------|-----------------------------|
| <a href="#">Conforme</a>  | RoHS 2015:                  |
| <a href="#">Visionner</a> | Certificate of Conformance: |
| <a href="#">Conforme</a>  | Reach 235:                  |

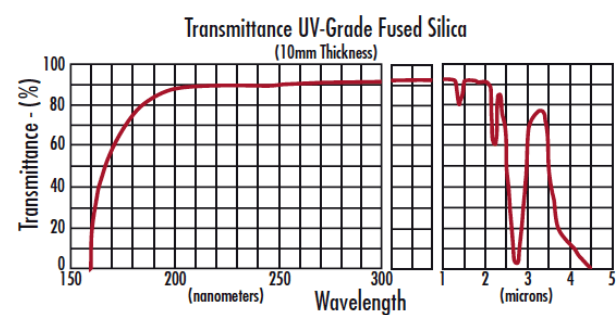
## Description produit

- Disponibles avec ou sans traitement antireflets à large bande
- Idéales pour applications à large bande
- Tailles de 5 mm de diamètre à carrés de 50 mm disponibles
- Fenêtres en Silice Fondue UV [λ4](#) ou [λ10](#) aussi disponibles

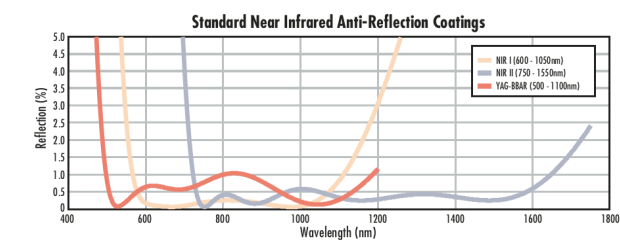
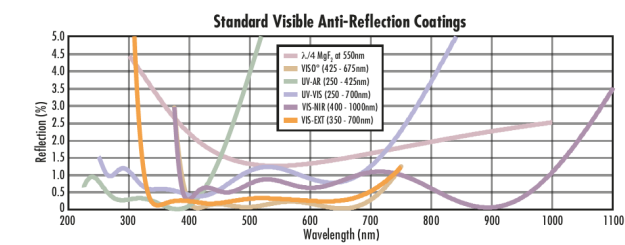
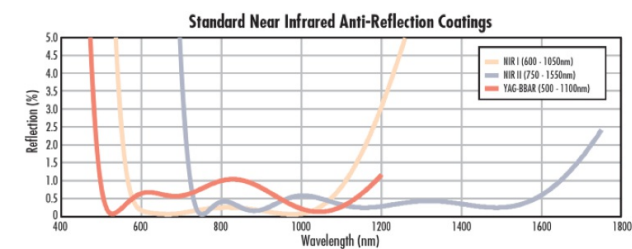
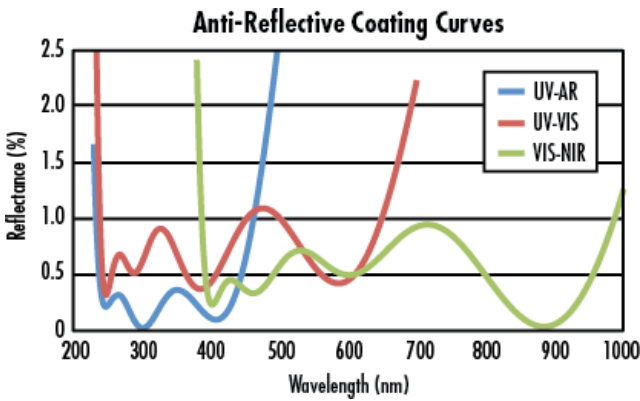
Les Fenêtres 1λ en Silice Fondue UV TECHSPEC® sont fabriquées avec précision en utilisant de la silice fondue synthétique. En plus d'une forte transmission, la silice fondue synthétique de ces fenêtres optiques fournit des propriétés thermiques plus élevées, une pureté exceptionnelle et une excellente durabilité environnementale pour toutes applications exigeantes. Les fenêtres sont idéales pour les applications à large bande sensibles aux coûts et sont disponibles sans traitement ou avec des traitements antireflets à large bande. Les Fenêtres 1λ en Silice Fondue UV TECHSPEC® ont des tailles allant de 5 mm à 100 mm de diamètre. Des fenêtres λ4 ou λ10 UV en silice fondue sont également disponibles.

**Remarque** : Les nouveaux ajouts à cette famille de produits peuvent être précisés avec une spécification de distorsion du front d'onde transmis (TWD) au lieu d'une planéité de surface. Pour plus d'informations sur la différence entre ces deux spécifications, consultez notre note d'application [Comprendre les fenêtres optiques](#).

## Informations techniques

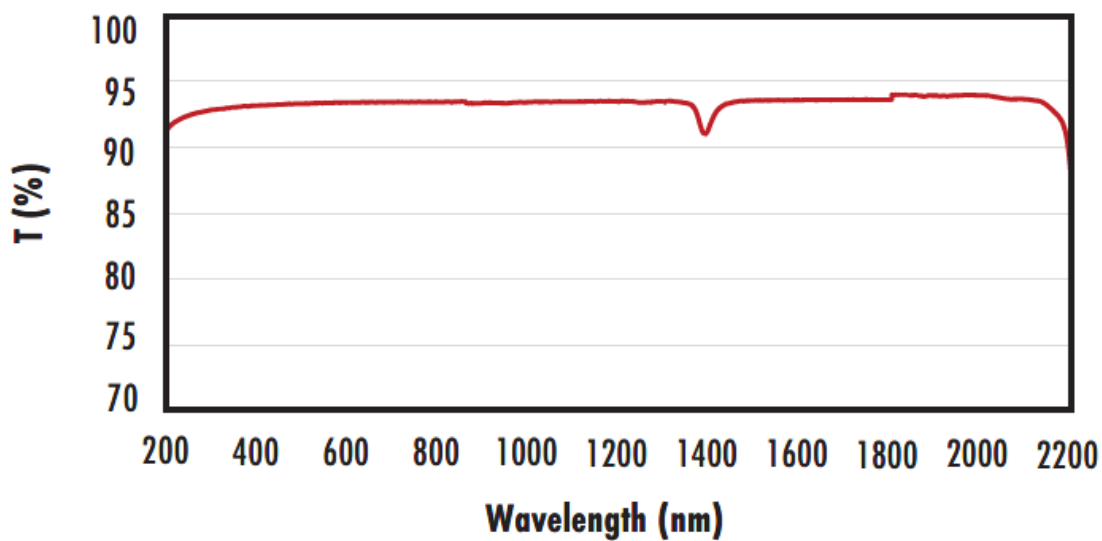


UV FS Transmission Curve



## FUSED SILICA

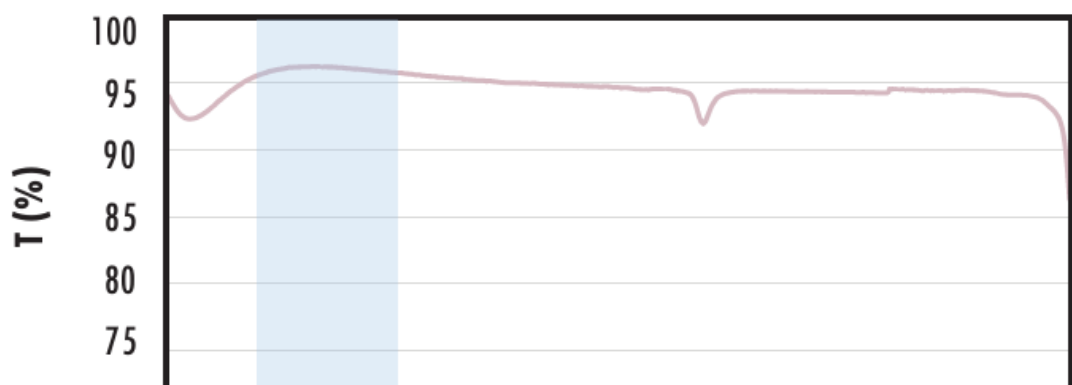
### Uncoated Fused Silica Typical Transmission



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

[Click Here to Download Data](#)

### Fused Silica with MgF<sub>2</sub> Coating Typical Transmission



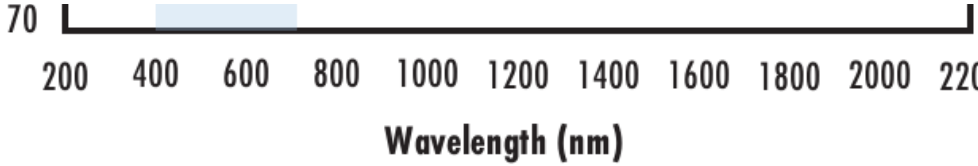
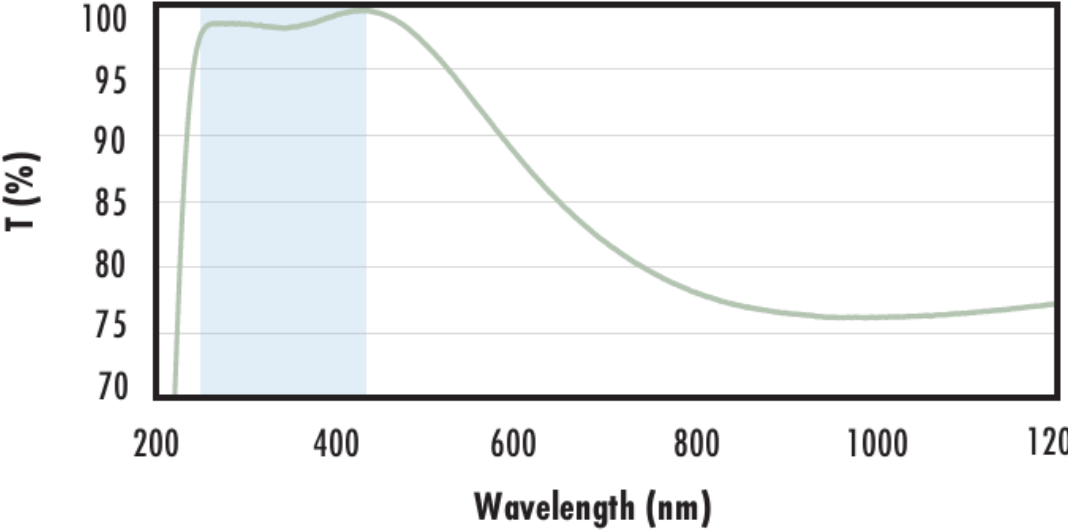
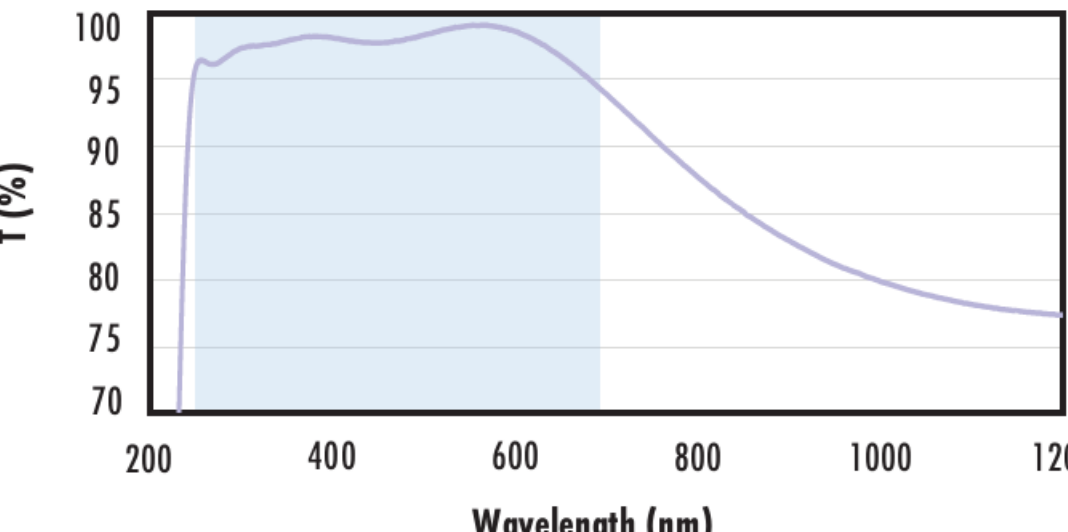
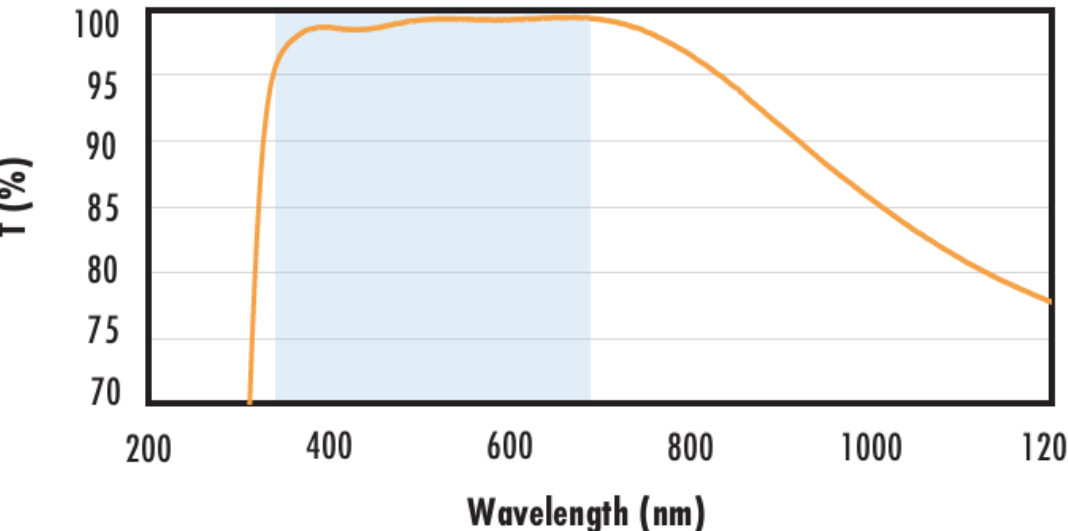
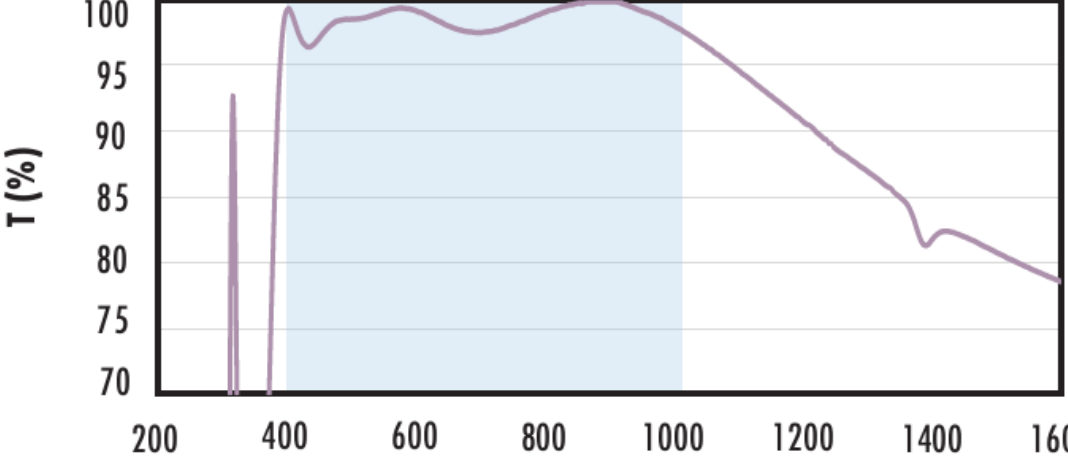
Typical transmission of a 3mm thick fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.

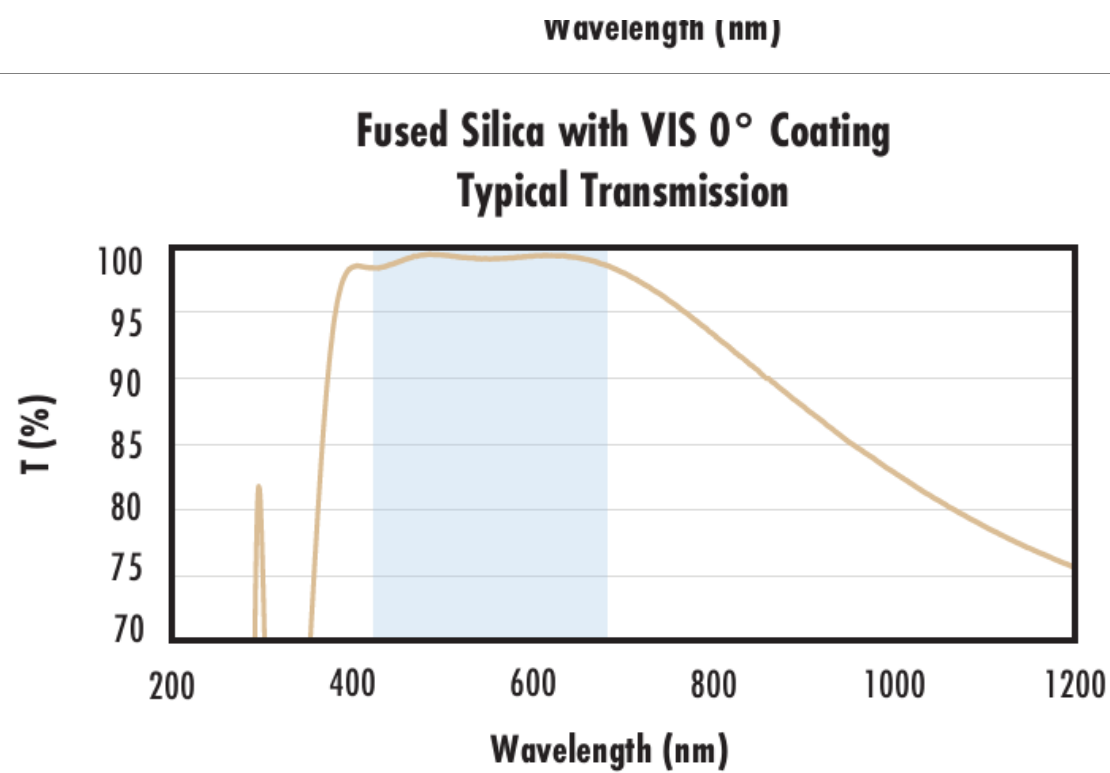
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

[Click Here to Download Data](#)

|                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p data-bbox="583 261 1075 371"><b>Fused Silica with UV-AR Coating</b><br/><b>Typical Transmission</b></p>        | <p data-bbox="1329 424 1854 474">Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.</p> <p data-bbox="1329 486 1854 537">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 549 1707 623"><p><math>R_{abs} \leq 1.0\% \text{ @ } 250 - 425\text{nm}</math></p><p><math>R_{avg} \leq 0.75\% \text{ @ } 250 - 425\text{nm}</math></p><p><math>R_{avg} \leq 0.5\% \text{ @ } 370 - 420\text{nm}</math></p></div> <p data-bbox="1329 635 1854 685">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 697 1707 718"><a href="#">Click Here to Download Data</a></p>           |
| <p data-bbox="575 943 1083 1053"><b>Fused Silica with UV-VIS Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1329 1101 1854 1151">Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</p> <p data-bbox="1329 1163 1854 1213">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 1225 1707 1276"><p><math>R_{abs} \leq 1.0\% \text{ @ } 350 - 450\text{nm}</math></p><p><math>R_{avg} \leq 1.5\% \text{ @ } 250 - 700\text{nm}</math></p></div> <p data-bbox="1329 1311 1854 1362">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 1374 1707 1394"><a href="#">Click Here to Download Data</a></p>                                                                     |
| <p data-bbox="569 1626 1089 1736"><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1329 1801 1854 1852">Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1329 1863 1854 1914">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 1926 1707 1952"><p><math>R_{avg} \leq 0.5\% \text{ @ } 350 - 700\text{nm}</math></p></div> <p data-bbox="1329 1964 1854 2015">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2027 1707 2047"><a href="#">Click Here to Download Data</a></p>                                                                                                                                        |
| <p data-bbox="575 2309 1083 2418"><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1329 2442 1854 2493">Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1329 2504 1854 2555">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 2567 1707 2641"><p><math>R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}</math></p><p><math>R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}</math></p><p><math>R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}</math></p></div> <p data-bbox="1329 2677 1854 2727">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2739 1707 2760"><a href="#">Click Here to Download Data</a></p> |

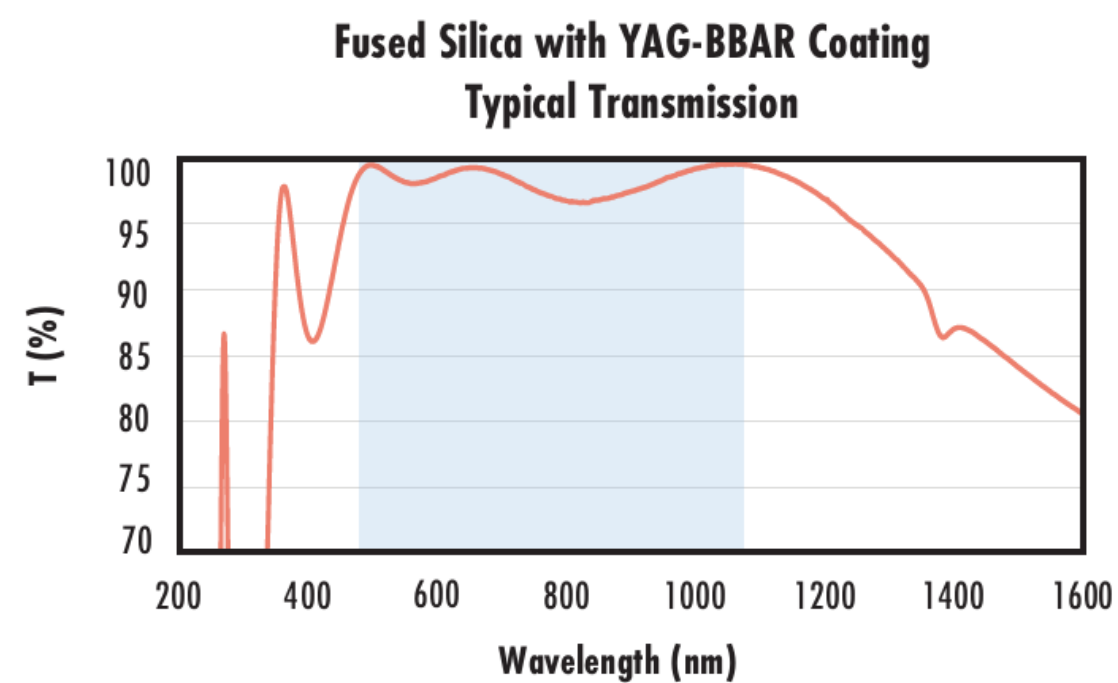


Typical transmission of a 3mm thick fused silica window with MS  
0° (425-675nm) coating at 0° AOI.

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

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

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

[Click Here to Download Data](#)

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 wavelength range, with the following specification:

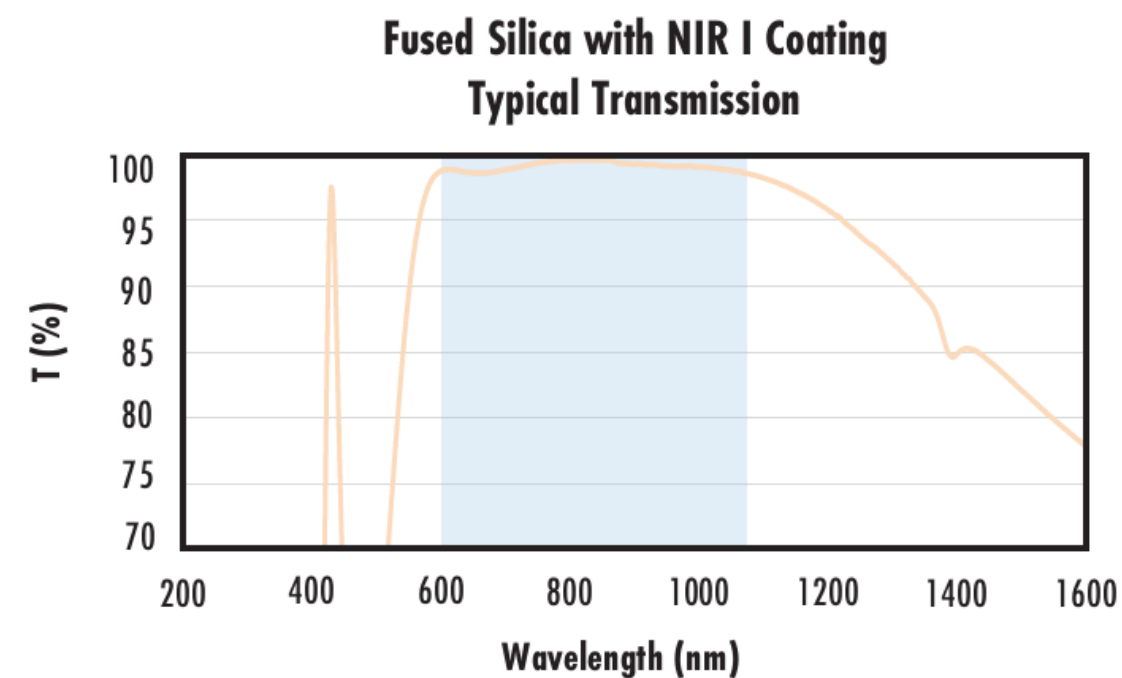
$$R_{\text{abs}} \leq 0.25\% @ 532\text{nm}$$

$$R_{\text{abs}} \leq 0.25\% @ 1064\text{nm}$$

$$R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}$$

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

[Click Here to Download Data](#)



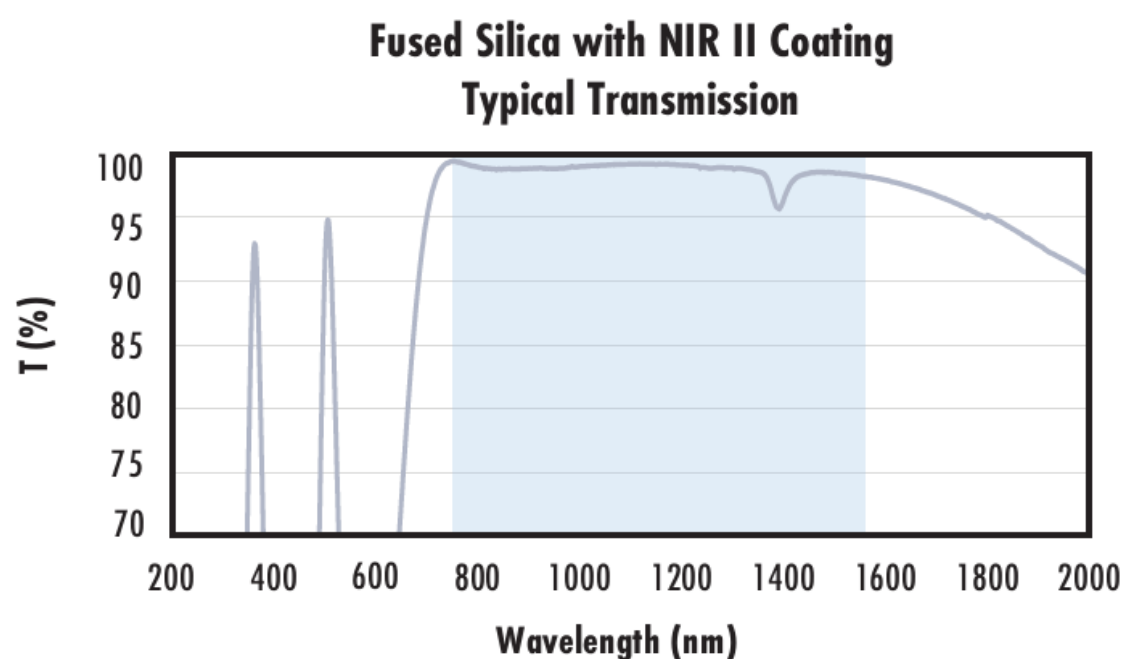
Typical transmission of a 3mm thick fused silica window with NIR  
I (600 - 1050nm) coating at 0° AOI.

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

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

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

[Click Here to Download Data](#)



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 wavelength range, with the following specification:

$R_{\text{abs}} \leq 1.5\% @ 750 - 800\text{nm}$

$$R_{\text{abs}} \leq 1.0\% @ 800 - 1550\text{nm}$$

$$R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}$$

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

[Click Here to Download Data](#)

# Coating Curves

## Sur mesure

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

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