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TECHSPEC®

Fenêtre 1λ en Silice Fondue Traitée NIR I, 20 mm de dia., 2 mm d'épaisseur



Stock **#36-975** 10 In Stock

-

1

+

€109<sup>,00</sup>

AJOUTER AU PANIER

| Prix sur Quantité |                                  |
|-------------------|----------------------------------|
| Qté 1-5           | €109,00 prix unitaire            |
| Qté 6-25          | €87,00 prix unitaire             |
| Qté 26-49         | €81,50 prix unitaire             |
| Need More?        | <a href="#">Demande de Devis</a> |

ⓘ Les prix sont indiqués hors TVA et droits applicables.

Espace téléchargement

99.00

#Sorting:

Caractéristiques du produit

Protective Window

Type:

Propriétés physiques et mécaniques

18.00

Ouverture Utile CA (mm):

|                      |                                     |
|----------------------|-------------------------------------|
| 20.00 +0.00/-0.20    | Diamètre (mm):                      |
| 2.00 ±0.38           | Épaisseur (mm):                     |
| <5                   | Parallélisme (arcmin):              |
| +0.00/-0.20          | Tolérance Dimensionelle (mm):       |
| 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

|                                             |                                         |
|---------------------------------------------|-----------------------------------------|
| NIR I (600-1050nm)                          | Traitement:                             |
| <a href="#">Fused Silica</a> (Corning 7980) | Substrat: □                             |
| 1.458                                       | Indice de Réfraction (n <sub>d</sub> ): |
| 60-40                                       | Qualité de Surface:                     |
| 67.8                                        | Nombre d'Abbe (v <sub>d</sub> ):        |
| R <sub>avg</sub> ≤0.5% @ 600 - 1050nm       | Spécification du Traitement:            |
| 600 - 1050                                  | Gamme de Longueur d'Onde (nm):          |
| 1λ                                          | Planéité de Surface (P-V):              |
| 7 J/cm² @ 1064nm, 10ns                      | Damage Threshold, Reference:            |

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): |
| 7980 0G                                                           | Fused Silica Grade:                                           |

Conformité réglementaire

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

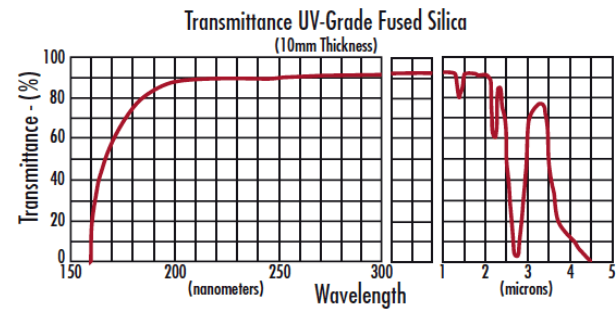
Description produit

- 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 [λ/4](#) ou [λ/10](#) 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 λ/4 ou λ/10 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

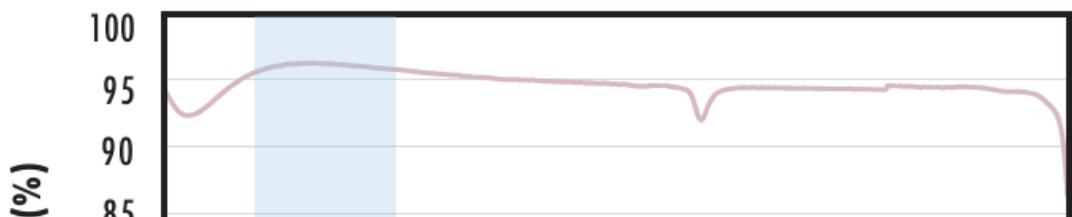
Uncoated Fused Silica  
Typical Transmission



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

[Click Here to Download Data](#)

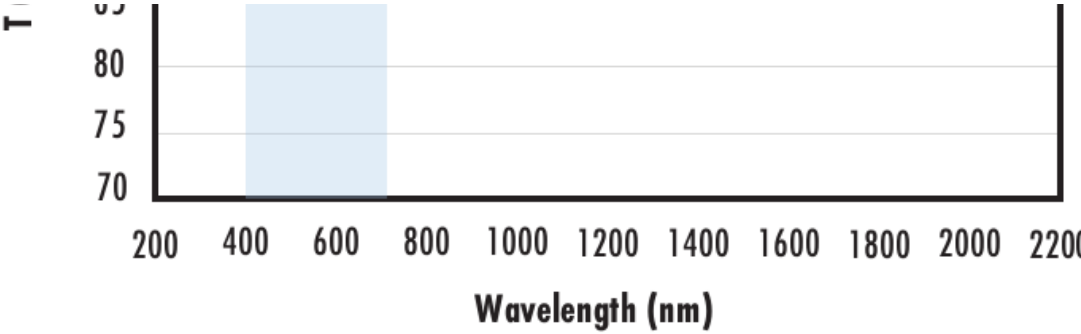
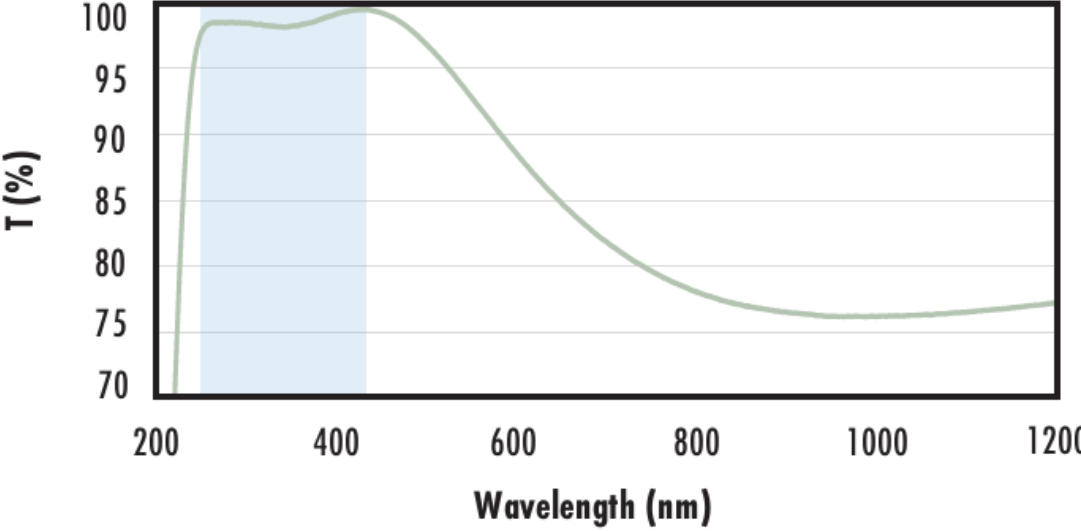
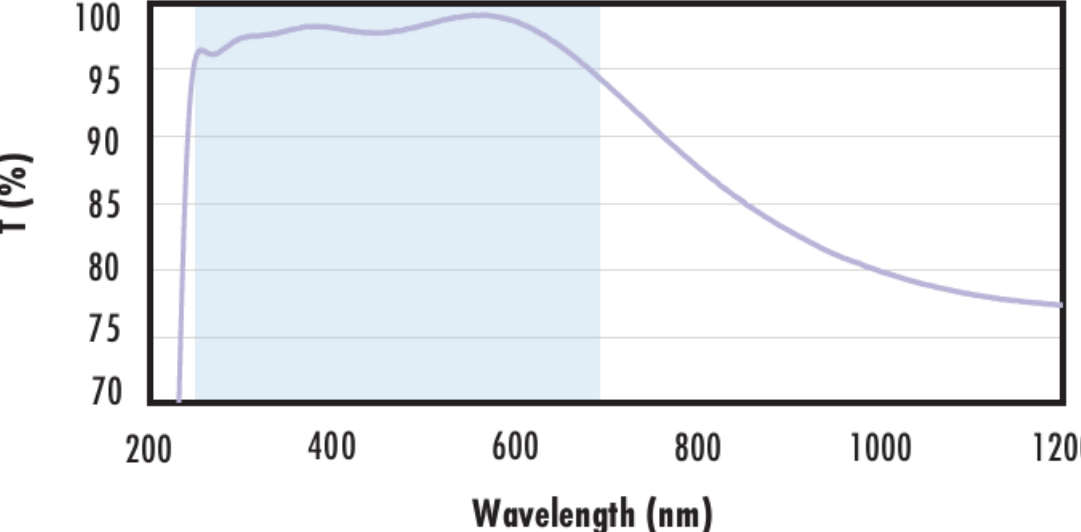
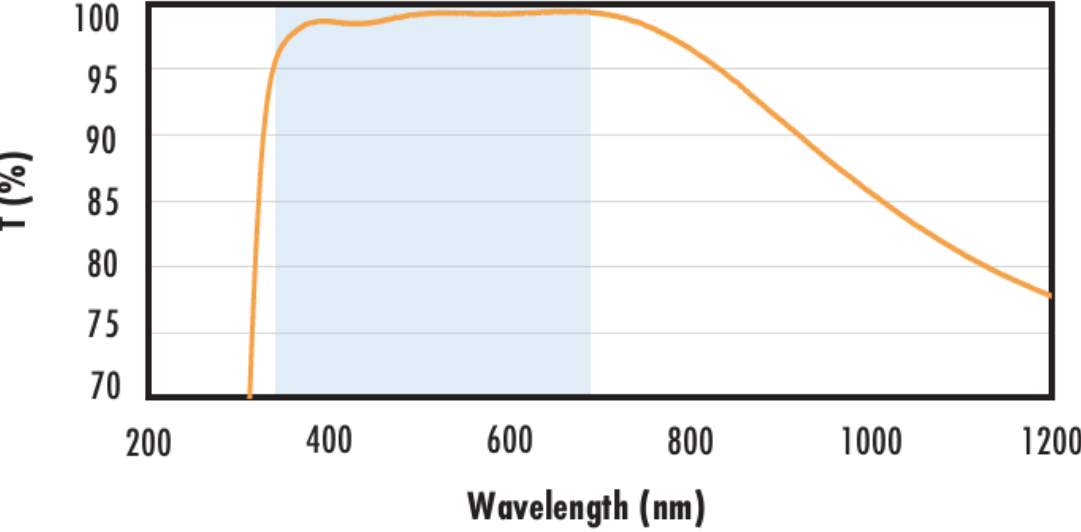
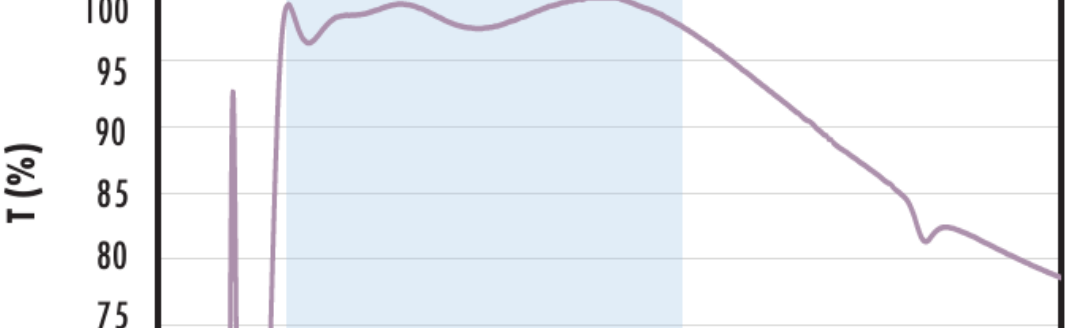
Fused Silica with MgF<sub>2</sub> Coating  
Typical Transmission

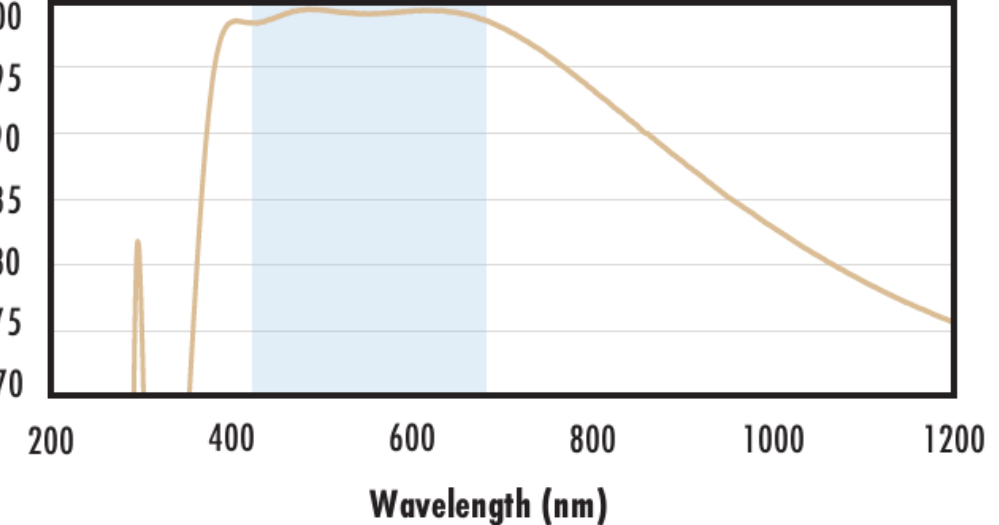
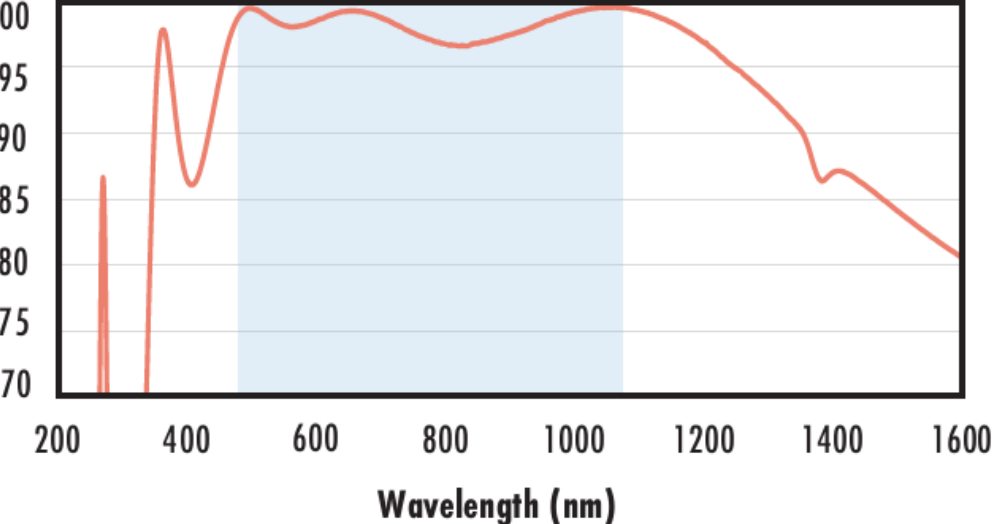
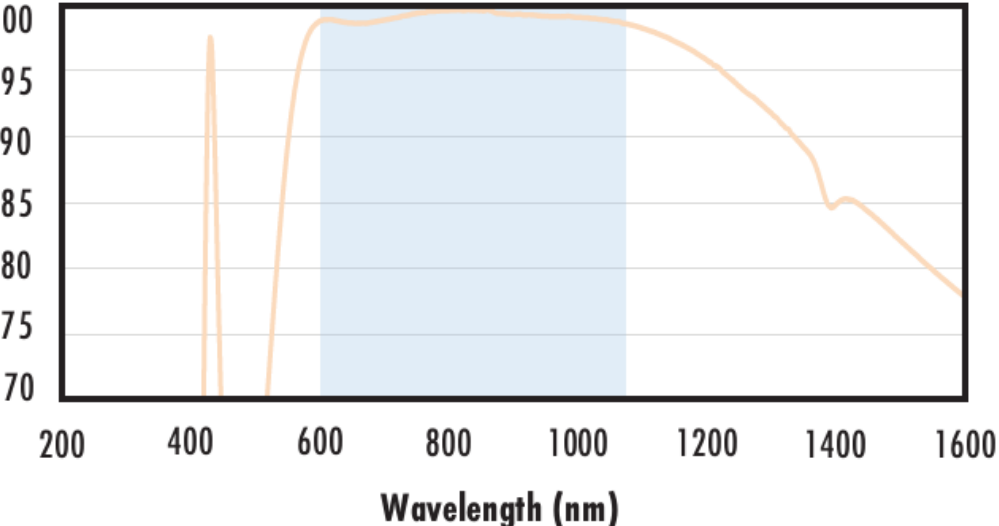
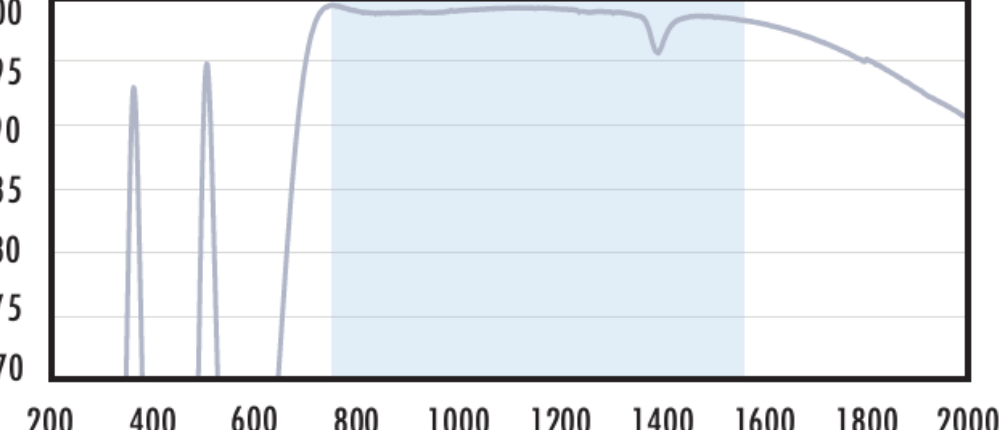


Typical transmission of a 3mm thick fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.

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

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

|                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p><b>Fused Silica with UV-AR Coating</b><br/><b>Typical Transmission</b></p>     | <p>Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 1.0\% \text{ @ } 250 - 425\text{nm}</math><br/><math>R_{avg} \leq 0.75\% \text{ @ } 250 - 425\text{nm}</math><br/><math>R_{avg} \leq 0.5\% \text{ @ } 370 - 420\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |
| <p><b>Fused Silica with UV-VIS Coating</b><br/><b>Typical Transmission</b></p>   | <p>Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 1.0\% \text{ @ } 350 - 450\text{nm}</math><br/><math>R_{avg} \leq 1.5\% \text{ @ } 250 - 700\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                   |
| <p><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.5\% \text{ @ } 350 - 700\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                    |
| <p><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}</math><br/><math>R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}</math><br/><math>R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p>                                                    |

|                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                    | <a href="#">Click Here to Download Data</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p data-bbox="569 308 1071 409"><b>Fused Silica with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1329 483 1856 531">Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1329 546 1856 593">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 608 1707 632"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p data-bbox="1329 647 1856 694">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 709 1713 733"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                        |
| <p data-bbox="548 973 1108 1074"><b>Fused Silica with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1329 1130 1856 1178">Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1329 1193 1856 1240">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1255 1707 1279"><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math></p> <p data-bbox="1478 1279 1707 1302"><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math></p> <p data-bbox="1472 1302 1713 1326"><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p> <p data-bbox="1329 1341 1856 1389">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 1403 1713 1427"><a href="#">Click Here to Download Data</a></p>           |
| <p data-bbox="594 1650 1066 1751"><b>Fused Silica with NIR I Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1329 1831 1856 1878">Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p data-bbox="1329 1893 1856 1941">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1472 1955 1713 1979"><math>R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}</math></p> <p data-bbox="1329 1994 1856 2041">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 2056 1713 2080"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                           |
| <p data-bbox="581 2332 1075 2433"><b>Fused Silica with NIR II Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1329 2469 1856 2516">Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p data-bbox="1329 2531 1856 2579">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1472 2594 1713 2617"><math>R_{abs} \leq 1.5\% @ 750 - 800\text{nm}</math></p> <p data-bbox="1472 2617 1713 2641"><math>R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}</math></p> <p data-bbox="1472 2641 1713 2665"><math>R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}</math></p> <p data-bbox="1329 2703 1856 2751">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 2766 1713 2789"><a href="#">Click Here to Download Data</a></p> |

| Wavelength (nm) |  |
|-----------------|--|
|-----------------|--|

## 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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## Montures compatibles

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