

TECHSPEC®

Fenêtre  $\lambda/4$  en Silice Fondue Traitée NIR I, 150 mm de dia., 3 mm d'épaisseur



TECHSPEC®  $\lambda/4$  UV Fused Silica Windows

Stock **#29-626** 3 In Stock

-

1

+

€1.133<sup>00</sup>

AJOUTER AU PANIER

| Prix sur Quantité |                                  |
|-------------------|----------------------------------|
| Qté 1-5           | €1.133,00 prix unitaire          |
| Qté 6-25          | €904,34 prix unitaire            |
| Qté 26-49         | €847,69 prix unitaire            |
| Need More?        | <a href="#">Demande de Devis</a> |

ⓘ Les prix sont indiqués hors TVA et droits applicables.

Espace téléchargement

SPÉCIFICATIONS

Caractéristiques du produit

Protective Window

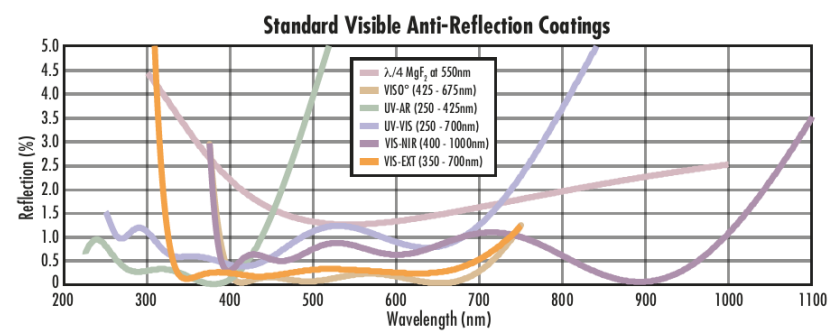
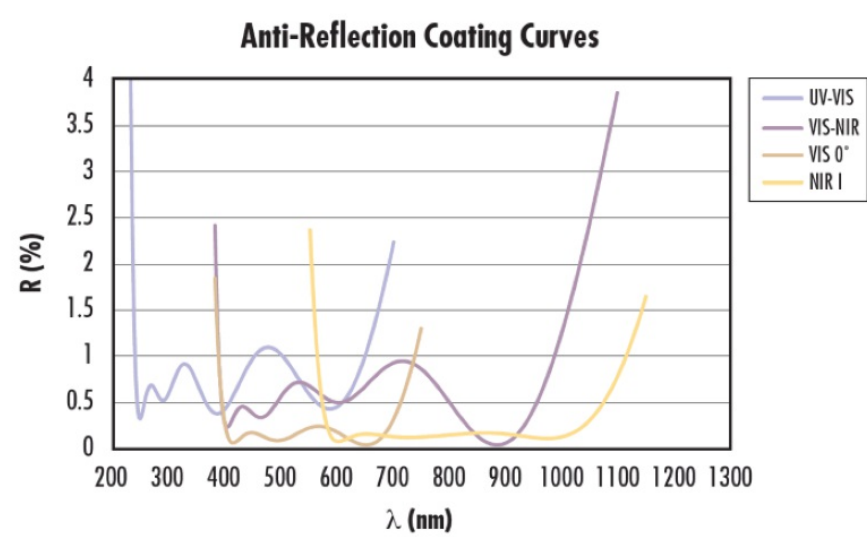
Type:

| Propriétés physiques et mécaniques                                |                                                               |
|-------------------------------------------------------------------|---------------------------------------------------------------|
| Protective as needed                                              | Biseau:                                                       |
| 90                                                                | Ouverture Utile (%):                                          |
| 90.00                                                             | Ouverture Utile CA (mm):                                      |
| 150.00 +0.00/-0.20                                                | Diamètre (mm):                                                |
| 3.00 ±0.10                                                        | Épaisseur (mm):                                               |
| Fine Ground                                                       | Bords:                                                        |
| 522.00                                                            | Dureté de Knoop (kg/mm²):                                     |
| <1                                                                | Parallélisme (arcmin):                                        |
| 0.16                                                              | Rapport de Poisson:                                           |
| 73                                                                | Module d'Élasticité de Young (GPa):                           |
| Propriétés optiques                                               |                                                               |
| 67.8                                                              | Nombre d'Abbe (v <sub>d</sub> ):                              |
| NIR I (600-1050nm)                                                | Traitement:                                                   |
| R <sub>avg</sub> ≤0.5% @ 600 - 1050nm                             | Spécification du Traitement:                                  |
| 1.458                                                             | Indice de Réfraction (n <sub>d</sub> ):                       |
| <a href="#">Fused Silica</a>                                      | Substrat:                                                     |
| 40-20                                                             | Qualité de Surface:                                           |
| λ/4 (per inch within clear aperture)                              | Front d'Onde Transmis, P-V:                                   |
| 600 - 1050                                                        | Gamme de Longueur d'Onde (nm):                                |
| 7 J/cm² @ 1064nm, 10ns                                            | Damage Threshold, Reference: <input type="checkbox"/>         |
| Propriétés des matériaux                                          |                                                               |
| 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): |
| 2.20                                                              | Densité (g/cm³):                                              |
| Conformité réglementaire                                          |                                                               |
| <a href="#">Visionner</a>                                         | Certificate of Conformance:                                   |

## DESCRIPTION PRODUIT

- disponible sans traitement ou traitées BBAR pour l'UV, le visible et le NIR
  - parfaites pour les applications d'imagerie
  - tailles de diamètre standard de 5 à 200 mm
  - fenêtres en silice fondue UV [1λ](#) ou [λ/10](#) également disponibles
- Les Fenêtres en Silice Fondue UV λ/4 TECHSPEC® sont fabriquées avec une qualité de surface de 40-20 et des spécifications d'erreur du front d'onde transmis de λ/4, ce qui les rend idéales pour les applications d'imagerie. Dotées de substrats en silice fondue UV, ces fenêtres offrent une transmission élevée de l'ultraviolet (UV) au visible et à l'infrarouge proche (NIR). Des options de traitement antireflet à large bande (BBAR) sont disponibles pour minimiser les pertes par réflexion et augmenter la transmission. Les Fenêtres en Silice Fondue UV λ/4 TECHSPEC sont utilisées dans les applications d'imagerie optique, dans les applications laser de faible à moyenne puissance et comme fenêtres de protection, en particulier dans les applications nécessitant la transmission de la lumière UV.

## INFORMATIONS TECHNIQUES



## 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](#)

### Fused Silica with UV-AR Coating Typical Transmission

|                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Typical Transmission</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\% @ 250 - 425\text{nm}</math><br/><math>R_{avg} \leq 0.75\% @ 250 - 425\text{nm}</math><br/><math>R_{avg} \leq 0.5\% @ 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>Fused Silica with UV-VIS Coating<br/>Typical Transmission</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\% @ 350 - 450\text{nm}</math><br/><math>R_{avg} \leq 1.5\% @ 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>Fused Silica with VIS-EXT Coating<br/>Typical Transmission</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\% @ 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>Fused Silica with VIS-NIR Coating<br/>Typical Transmission</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\% @ 880\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 890 - 1000\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>Fused Silica with VIS 0° Coating<br/>Typical Transmission</p>   | <p>Typical transmission of a 3mm thick fused silica window with VIS</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                        | <p>0° (425-675nm) 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 0.4\% @ 425 - 675nm</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 YAG-BBAR Coating</b></p> <p><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) 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\% @ 532nm</math><br/><math>R_{abs} \leq 0.25\% @ 1064nm</math><br/><math>R_{avg} \leq 1.0\% @ 500 - 1100nm</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 NIR I Coating</b></p> <p><b>Typical Transmission</b></p>    | <p>Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) 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\% @ 600 - 1050nm</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 NIR II Coating</b></p> <p><b>Typical Transmission</b></p>   | <p>Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) 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 1.5\% @ 750 - 800nm</math><br/><math>R_{abs} \leq 1.0\% @ 800 - 1550nm</math><br/><math>R_{avg} \leq 0.7\% @ 750 - 1550nm</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> |

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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