

TECHSPEC®

Lentille Plan-Convexe Traitée NIR I, 25 mm de dia. x 200 mm FL



UV Fused Silica Plano-Convex (PCX) Lenses



Stock **#18-100** 5 In Stock

-

1

+

€162<sup>.00</sup>

AJOUTER AU PANIER

| Prix sur Quantité |                                  |
|-------------------|----------------------------------|
| Qté 1-5           | €162,00 prix unitaire            |
| Qté 6-25          | €129,00 prix unitaire            |
| Qté 26-49         | €122,00 prix unitaire            |
| Need More?        | <a href="#">Demande de Devis</a> |

Les prix sont indiqués hors TVA et droits applicables.

Espace téléchargement

Caractéristiques du produit

Plano-Convex Lens

Type:

Propriétés physiques et mécaniques

|                      |                             |
|----------------------|-----------------------------|
| 25.00 -0.025         | Diamètre (mm):              |
| <1                   | Centrage (arcmin):          |
| 2.88 ±0.10           | Épaisseur Centrale CT (mm): |
| 2.02                 | Épaisseur au Bord ET (mm):  |
| 24                   | Ouverture Utile CA (mm):    |
| Protective as needed | Biseau:                     |

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| Propriétés optiques                   |                                   |
| 200.00 @ 587.6nm                      | Distance Focale EFL (mm):         |
| 198.02                                | Distance Focale Arrière BFL (mm): |
| NIR I (600-1050nm)                    | Traitement:                       |
| R <sub>avg</sub> ≤0.5% @ 600 - 1050nm | Spécification du Traitement:      |
| Fused Silica (Corning 7980)           | Substrat: □                       |
| 40-20                                 | Qualité de Surface:               |
| 3 Rings                               | Power (P-V) @ 632.8nm:            |
| 0.5 Rings                             | Irregularity (P-V) @ 632.8nm:     |
| ±1                                    | Tolérance Distance Focale (%):    |
| 91.68                                 | Rayon R <sub>1</sub> (mm):        |
| 8                                     | f/#:                              |
| 0.06                                  | Ouverture Numérique NA:           |
| 600 - 1050                            | Gamme de Longueur d'Onde (nm):    |
| 7 J/cm <sup>2</sup> @ 1064nm, 10ns    | Damage Threshold, Reference: □    |

|                          |                             |
|--------------------------|-----------------------------|
| Conformité réglementaire |                             |
| Conforme                 | RoHS 2015:                  |
| Visionner                | Certificate of Conformance: |
| Conforme                 | Reach 235:                  |

## 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](#).

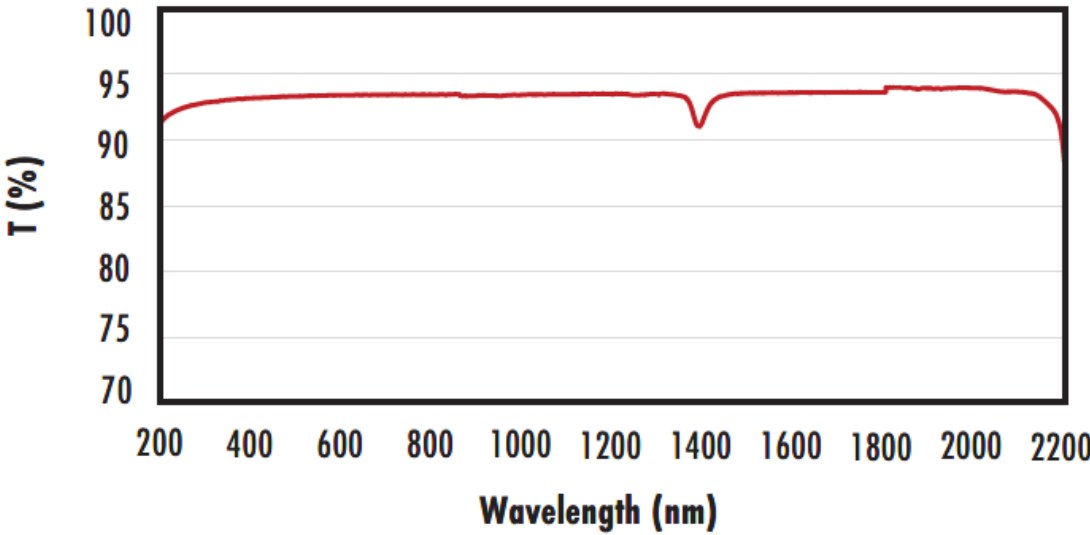
## Description produit

- Traitées AR pour procurer une réflexion <0,5% par surface de 600 à 1050 nm
- Substrat en silice fondue de précision
- Diverses options de traitement : **Non Traitées**, **MgF<sub>2</sub>**, **UV-AR**, **UV-VIS**, **VIS-EXT**, **VIS-NIR**, **VIS 0°**, **YAG-BBAR** et **NIR II**

Les Lentilles Plan-Convexes (PCX) en Silice Fondue UVTraitées NIR I TECHSPEC® présentent des spécifications de précision et une variété d'options de traitement sur un substrat à large bande. La silice fondue est couramment utilisée dans des applications allant de l'ultraviolet (UV) au proche infrarouge (NIR). Son faible indice de réfraction, son faible coefficient de dilatation thermique et sa faible teneur en inclusions la rendent idéale pour les applications laser et les conditions environnementales difficiles. Les Lentilles Plan-Convexes (PCX) en Silice Fondue UVTraitées NIR I TECHSPEC® présentent des spécifications de centrage et de diamètre à la pointe de l'industrie, ce qui les rend idéales pour l'intégration dans des applications d'imagerie et de mesure exigeantes.Ces lentilles sont dotées d'un traitement NIR I afin d'augmenter leurs performances de traitement dans la plage de 600 nm à 1050 nm.

FUSED SILICA

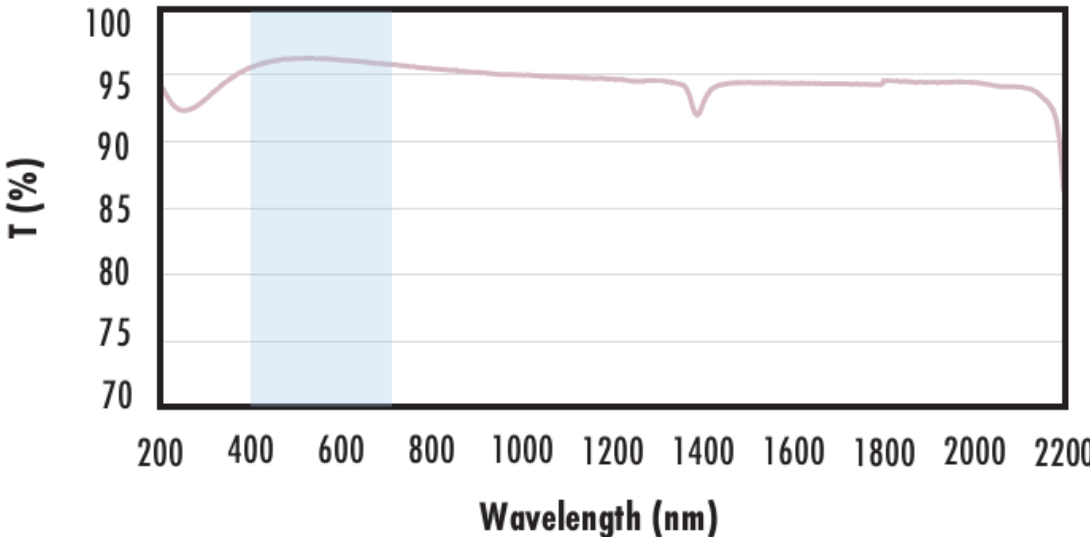
Uncoated Fused Silica  
Typical Transmission



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.

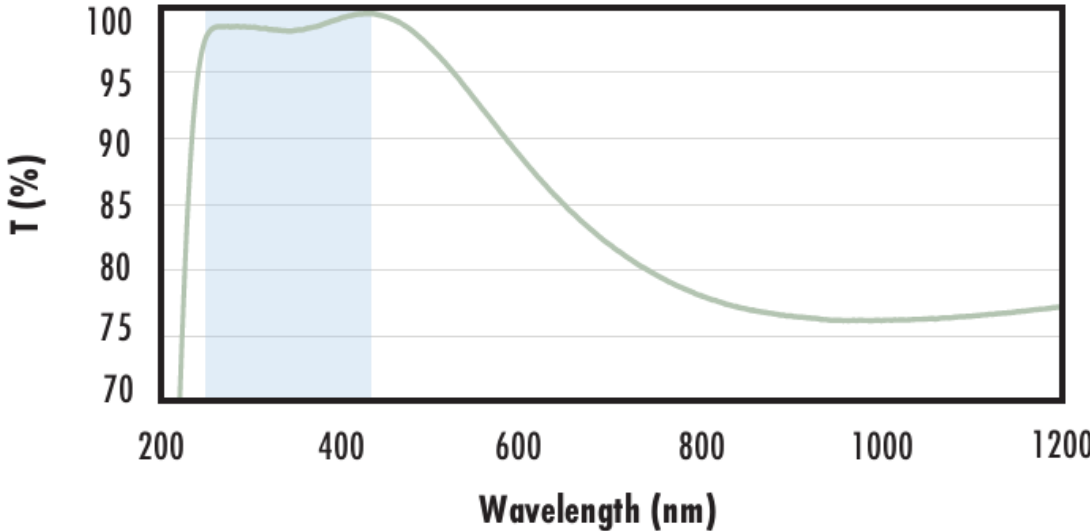
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$  (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



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

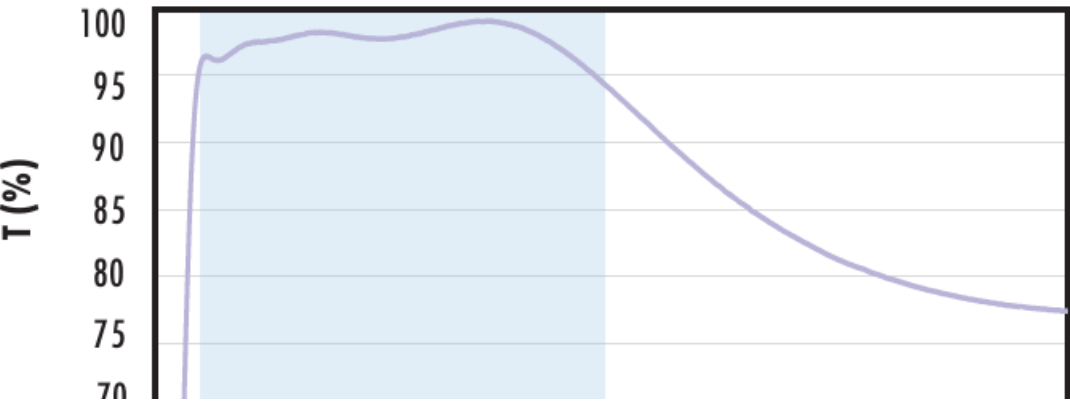
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 1.0\% @ 250 - 425\text{nm}$   
 $R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$   
 $R_{avg} \leq 0.5\% @ 370 - 420\text{nm}$

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

[Click Here to Download Data](#)

Fused Silica with UV-VIS Coating  
Typical Transmission



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

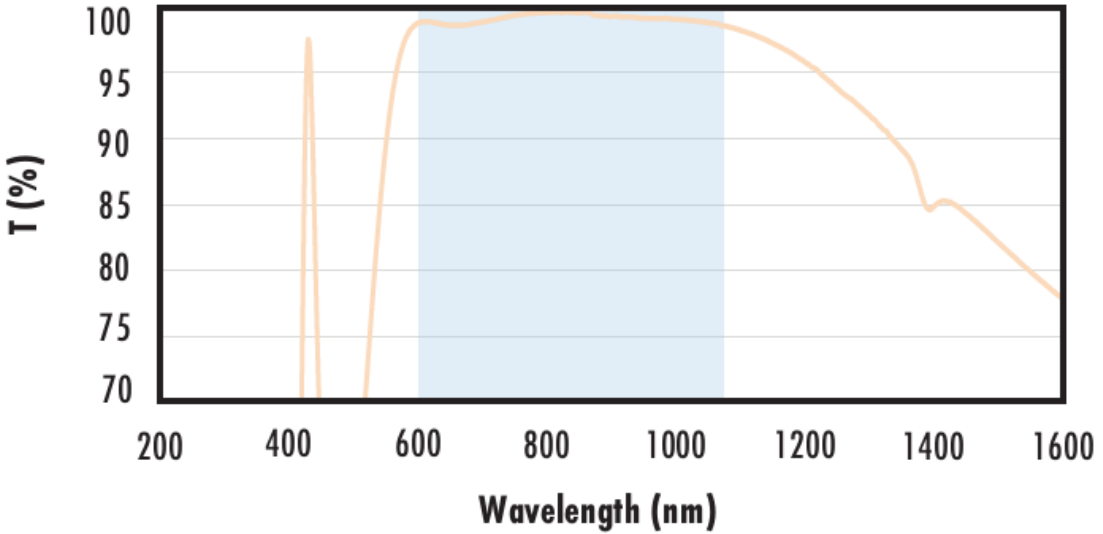
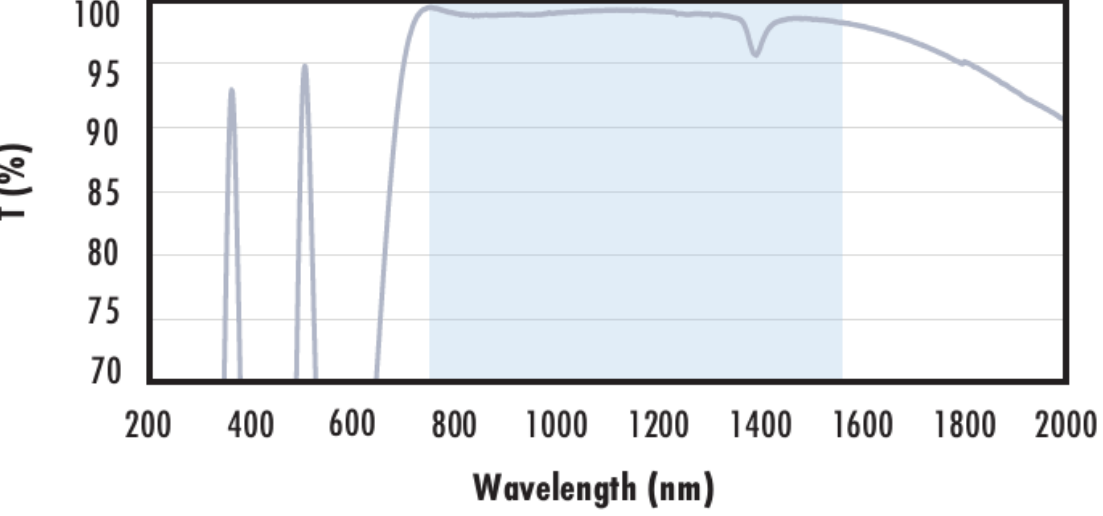
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 1.0\% @ 350 - 450\text{nm}$   
 $R_{avg} \leq 1.5\% @ 250 - 700\text{nm}$

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

[Click Here to Download Data](#)

|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p data-bbox="567 252 1081 356"><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1339 436 1839 483">Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1339 498 1850 546">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 560 1711 584"><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p data-bbox="1339 599 1839 647">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 661 1711 685"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                  |
| <p data-bbox="567 931 1081 1035"><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1339 1074 1839 1121">Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1339 1136 1850 1184">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1199 1711 1222"><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math></p> <p data-bbox="1478 1225 1711 1249"><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math></p> <p data-bbox="1478 1252 1711 1276"><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p> <p data-bbox="1339 1308 1839 1356">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 1371 1711 1394"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="567 1599 1081 1703"><b>Fused Silica with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1339 1780 1850 1828">Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1339 1843 1850 1890">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1905 1711 1929"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p data-bbox="1339 1944 1839 1991">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 2006 1711 2030"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                         |
| <p data-bbox="567 2273 1081 2377"><b>Fused Silica with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1339 2427 1839 2475">Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1339 2490 1850 2537">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 2552 1711 2576"><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math></p> <p data-bbox="1478 2579 1711 2602"><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math></p> <p data-bbox="1478 2605 1711 2629"><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p> <p data-bbox="1339 2644 1839 2691">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 2706 1711 2730"><a href="#">Click Here to Download Data</a></p>      |

|                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div data-bbox="260 121 1291 750"><h3>Fused Silica with NIR I Coating<br/>Typical Transmission</h3></div>    | <div data-bbox="1325 299 1858 552"><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\%</math> @ 600 - 1050nm</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></div>                                                                                                        |
| <div data-bbox="260 804 1291 1415"><h3>Fused Silica with NIR II Coating<br/>Typical Transmission</h3></div> | <div data-bbox="1325 940 1858 1264"><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\%</math> @ 750 - 800nm<br/><math>R_{abs} \leq 1.0\%</math> @ 800 - 1550nm<br/><math>R_{avg} \leq 0.7\%</math> @ 750 - 1550nm</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></div> |