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TECHSPEC<sup>®</sup> 30mm de Dia. x 120mm FL, traité VIS-NIR, Lentille PCX UV



UV Fused Silica Plano-Convex (PCX) Lenses



Stock **#84-325** 3 In Stock

-

1

+

€210<sup>.00</sup>

AJOUTER AU PANIER

| Prix sur Quantité |                                  |
|-------------------|----------------------------------|
| Qté 1-5           | €210,00 prix unitaire            |
| Qté 6-25          | €168,00 prix unitaire            |
| Qté 26-49         | €158,00 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

|                      |                             |
|----------------------|-----------------------------|
| 30.00 +0.0/-0.025    | Diamètre (mm):              |
| <1                   | Centrage (arcmin):          |
| 5.00 ±0.10           | Épaisseur Centrale CT (mm): |
| 2.92                 | Épaisseur au Bord ET (mm):  |
| 29                   | Ouverture Utile CA (mm):    |
| Protective as needed | Biseau:                     |

Propriétés optiques

|                                                                                                                    |                                                       |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 120.00 @ 587.6nm                                                                                                   | Distance Focale EFL (mm):                             |
| 116.57                                                                                                             | Distance Focale Arrière BFL (mm):                     |
| VIS-NIR (400-1000nm)                                                                                               | Traitement:                                           |
| R <sub>abs</sub> ≤0.25% @ 880nm<br>R <sub>avg</sub> ≤1.25% @ 400 - 870nm<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm | Spécification du Traitement:                          |
| Fused Silica (Corning 7980)                                                                                        | Substrat: <input type="checkbox"/>                    |
| 40-20                                                                                                              | Qualité de Surface:                                   |
| 1.5λ                                                                                                               | Power (P-V) @ 632.8nm:                                |
| λ/4                                                                                                                | Irregularity (P-V) @ 632.8nm:                         |
| ±1                                                                                                                 | Tolérance Distance Focale (%):                        |
| 55.02                                                                                                              | Rayon R <sub>1</sub> (mm):                            |
| 4                                                                                                                  | f/#:                                                  |
| 0.13                                                                                                               | Ouverture Numérique NA:                               |
| 400 - 1000                                                                                                         | Gamme de Longueur d'Onde (nm):                        |
| 5 J/cm² @ 532nm, 10ns                                                                                              | Damage Threshold, Reference: <input type="checkbox"/> |

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](#).

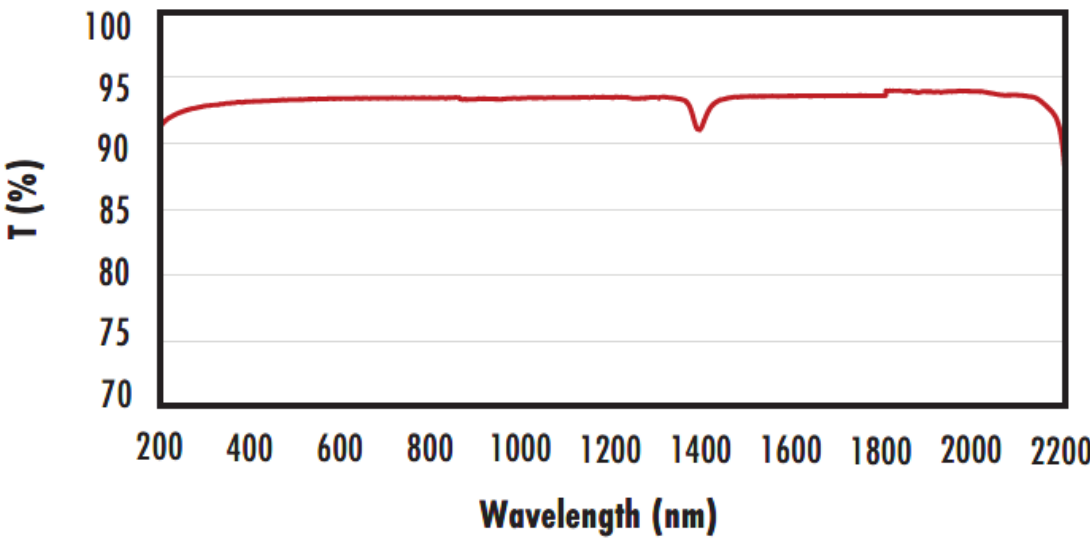
## Description produit

- Traitées AR pour procurer une réflexion <1,25% par surface de 400 à 870 nm et de 890 à 1000 nm
- Substrat en silice fondue de précision
- Diverses options de traitement : [Non Traitées](#), [MgF<sub>2</sub>](#), [UV-AR](#), [UV-VIS](#), [VIS-EXT](#), [VIS 0°](#), [YAG-BBAR](#), [NIR I](#) et [NIR II](#)

Les Lentilles Plan-Convexes (PCX) en Silice Fondue UV Traitées VIS-NIR 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 UV Traitées VIS-NIR 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 VIS-NIR afin d'augmenter leurs performances de traitement dans le domaine du visible et de l'infrarouge proche.

FUSED SILICA

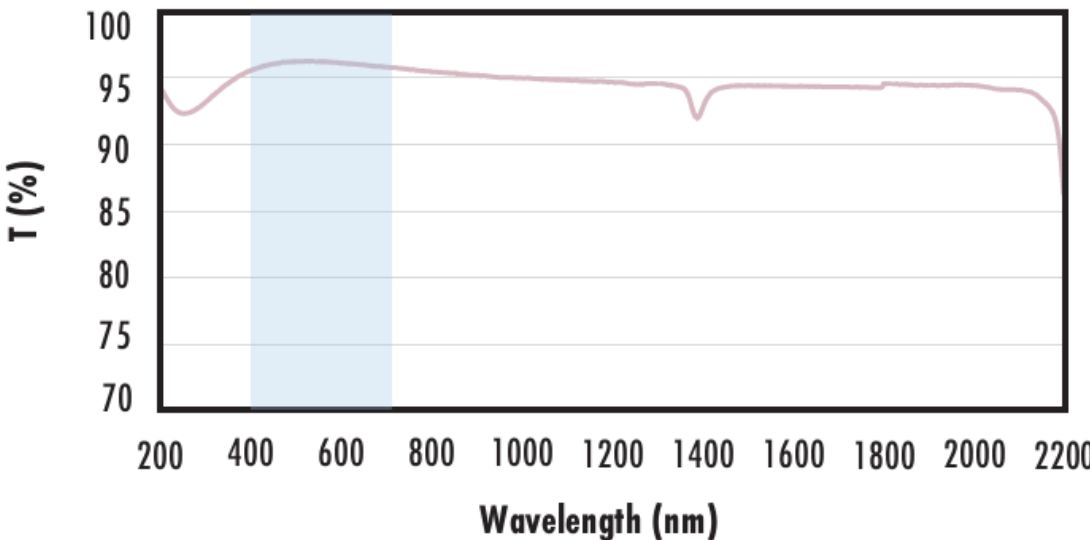
Uncoated Fused Silica  
Typical Transmission



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

[Click Here to Download Data](#)

Fused Silica with  $\text{MgF}_2$  Coating  
Typical Transmission



Typical transmission of a 3mm thick fused silica window with  $\text{MgF}_2$  (400-700nm) coating at 0° AOI.

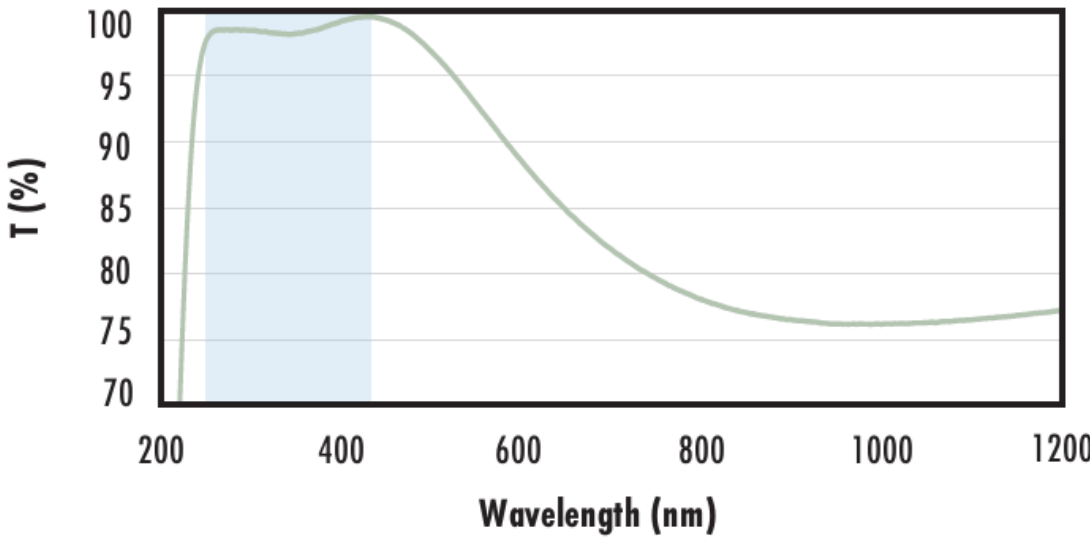
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

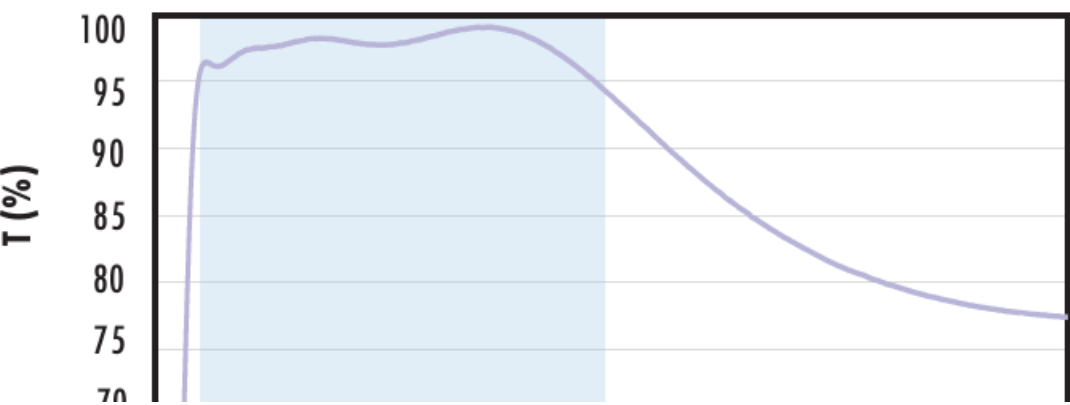
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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



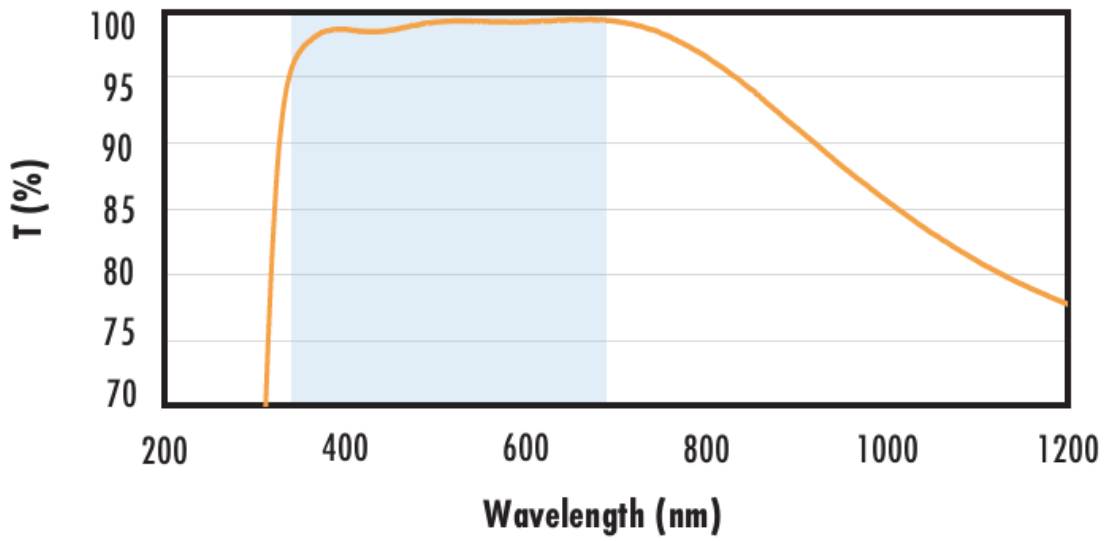
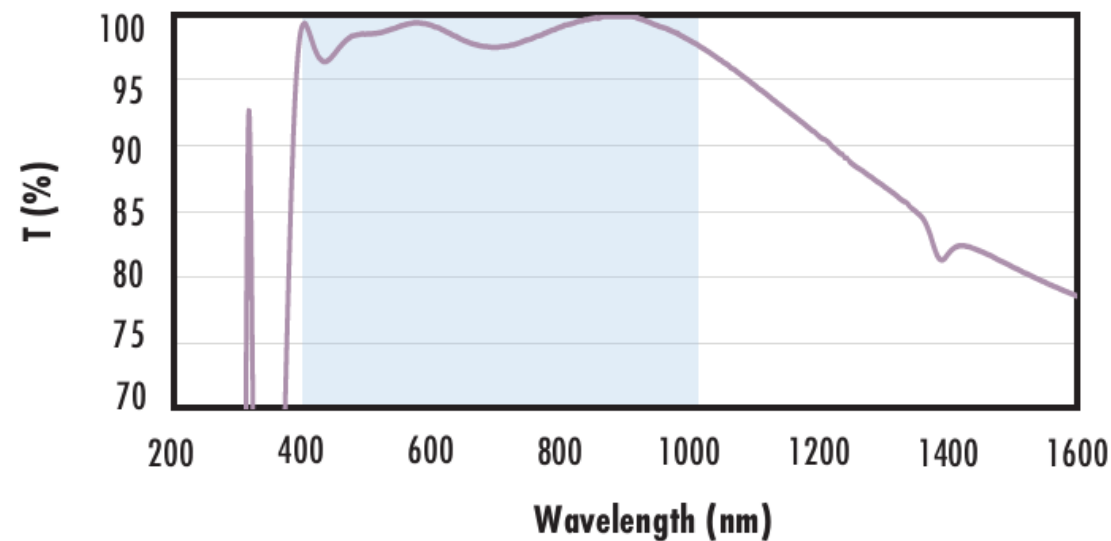
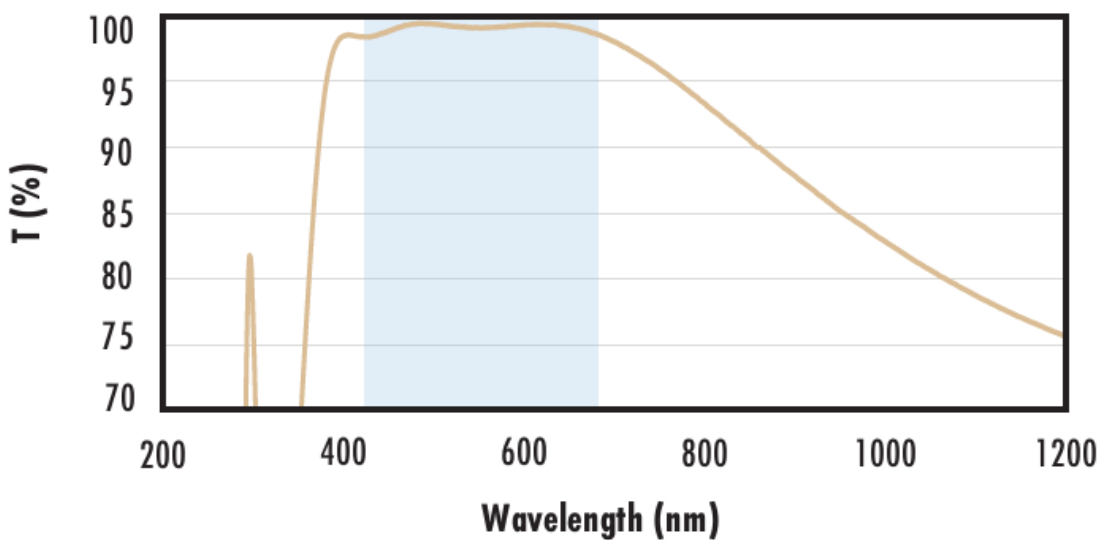
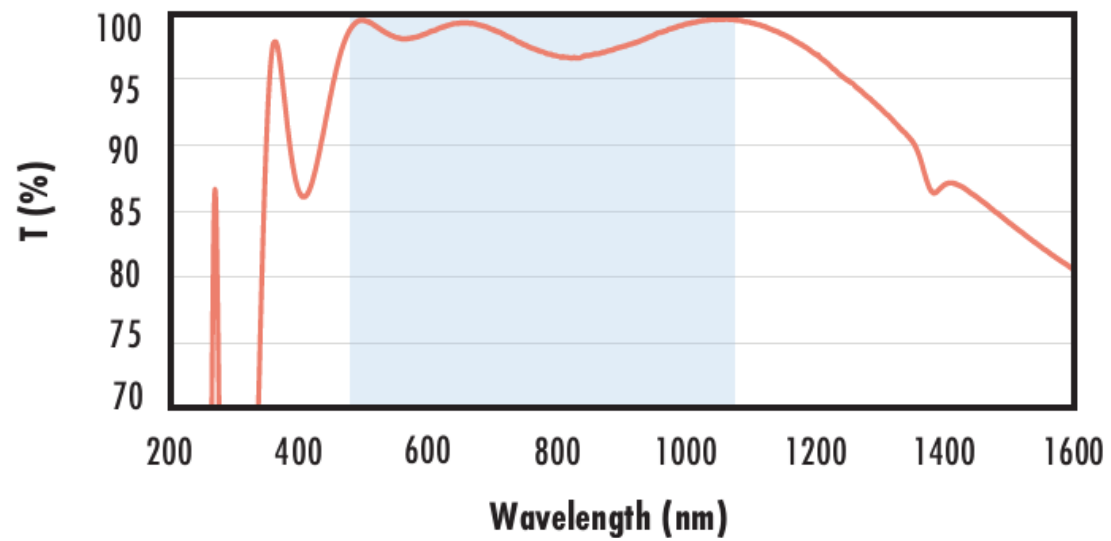
Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

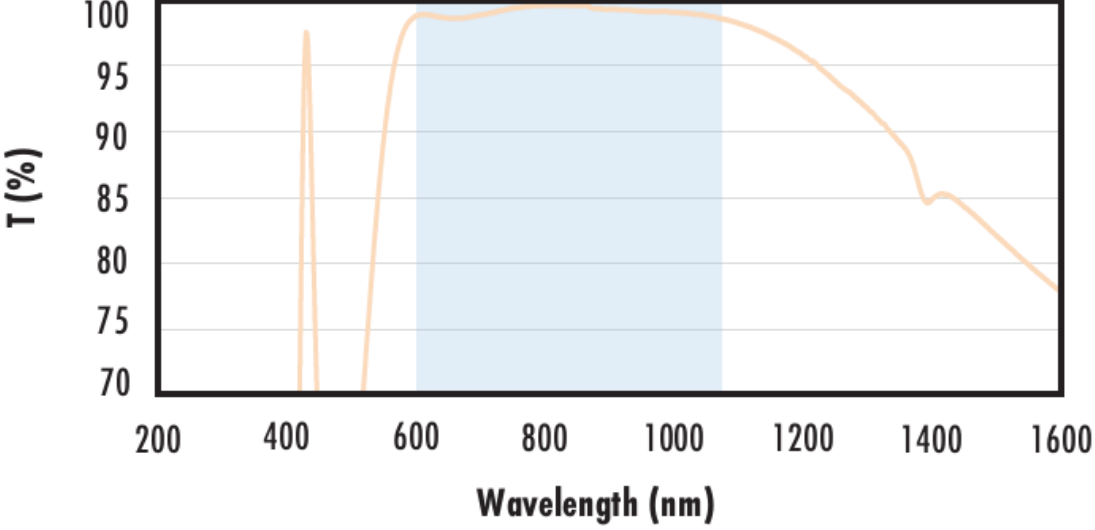
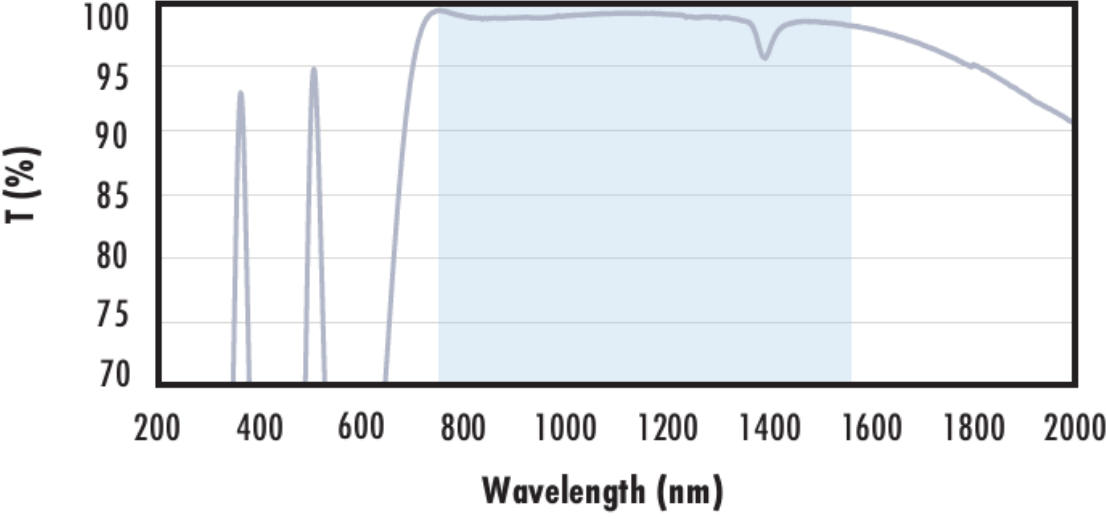
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

[Click Here to Download Data](#)

|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p data-bbox="569 261 1079 359"><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1341 439 1839 486">Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1333 501 1852 549">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 563 1707 587"><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p data-bbox="1341 602 1839 649">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 664 1711 688"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                  |
| <p data-bbox="573 931 1089 1029"><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1341 1077 1839 1124">Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1333 1139 1852 1187">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1495 1202 1690 1225"><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math></p> <p data-bbox="1472 1228 1713 1252"><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math></p> <p data-bbox="1465 1255 1719 1279"><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p> <p data-bbox="1341 1311 1839 1359">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1374 1711 1397"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="571 1608 1073 1706"><b>Fused Silica with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1329 1783 1856 1831">Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1333 1846 1852 1893">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1908 1707 1932"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p data-bbox="1341 1947 1839 1994">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 2009 1711 2033"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                         |
| <p data-bbox="550 2276 1108 2374"><b>Fused Silica with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1341 2430 1839 2478">Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1333 2493 1852 2540">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1491 2555 1694 2579"><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math></p> <p data-bbox="1488 2582 1696 2605"><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math></p> <p data-bbox="1472 2608 1713 2632"><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p> <p data-bbox="1341 2647 1839 2694">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 2709 1711 2733"><a href="#">Click Here to Download Data</a></p>      |

|                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>Fused Silica with NIR I Coating</div><div>Typical Transmission</div></div>   | <div>Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><math>R_{avg} \leq 0.5\% \text{ @ } 600 - 1050\text{nm}</math></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                                                                                       |
| <div><div>Fused Silica with NIR II Coating</div><div>Typical Transmission</div></div> | <div>Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><math>R_{abs} \leq 1.5\% \text{ @ } 750 - 800\text{nm}</math><br/><math>R_{abs} \leq 1.0\% \text{ @ } 800 - 1550\text{nm}</math><br/><math>R_{avg} \leq 0.7\% \text{ @ } 750 - 1550\text{nm}</math></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div> |

Coating Curves

Montures compatibles