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TECHSPEC<sup>®</sup> Lentille Plan-Convexe Traitée YAG-BBAR, 50 mm de dia. x 150 mm FL



UV Fused Silica Plano-Convex (PCX) Lenses



Stock **#18-193** 3 In Stock

-

1

+

€338<sup>.00</sup>

AJOUTER AU PANIER

| Prix sur Quantité |                                  |
|-------------------|----------------------------------|
| Qté 1-5           | €338,00 prix unitaire            |
| Qté 6-25          | €270,00 prix unitaire            |
| Qté 26-49         | €254,00 prix unitaire            |
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Les prix sont indiqués hors TVA et droits applicables.

Espace téléchargement

Caractéristiques du produit

Plano-ConvexLens

Type:

Propriétés physiques et mécaniques

|                      |                             |
|----------------------|-----------------------------|
| 50.00 -0.025         | Diamètre (mm):              |
| <1                   | Centrage (arcmin):          |
| 7.00 ±0.10           | Épaisseur Centrale CT (mm): |
| 2.29                 | Épaisseur au Bord ET (mm):  |
| 49                   | Ouverture Utile CA (mm):    |
| Protective as needed | Biseau:                     |

Propriétés optiques

|                                                                                                              |                                                       |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 150.00 @ 587.6nm                                                                                             | Distance Focale EFL (mm):                             |
| 145.20                                                                                                       | Distance Focale Arrière BFL (mm):                     |
| YAG-BBAR (500-1100nm)                                                                                        | Traitement:                                           |
| R <sub>abs</sub> <0.25% @ 532nm<br>R <sub>abs</sub> <0.25% @ 1064nm<br>R <sub>avg</sub> <1.0% @ 500 - 1100nm | Spécification du Traitement:                          |
| Fused Silica (Corning 7980)                                                                                  | Substrat: <input type="checkbox"/>                    |
| 40-20                                                                                                        | Qualité de Surface:                                   |
| 3 Rings                                                                                                      | Power (P-V) @ 632.8nm:                                |
| 0.5 Rings                                                                                                    | Irregularity (P-V) @ 632.8nm:                         |
| ±1                                                                                                           | Tolérance Distance Focale (%):                        |
| 68.77                                                                                                        | Rayon R <sub>1</sub> (mm):                            |
| 3                                                                                                            | f/#:                                                  |
| 0.17                                                                                                         | Ouverture Numérique NA:                               |
| 500 - 1100                                                                                                   | Gamme de Longueur d'Onde (nm):                        |
| 5 J/cm <sup>2</sup> @ 532nm, 10ns                                                                            | Damage Threshold, By Design: <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](#).

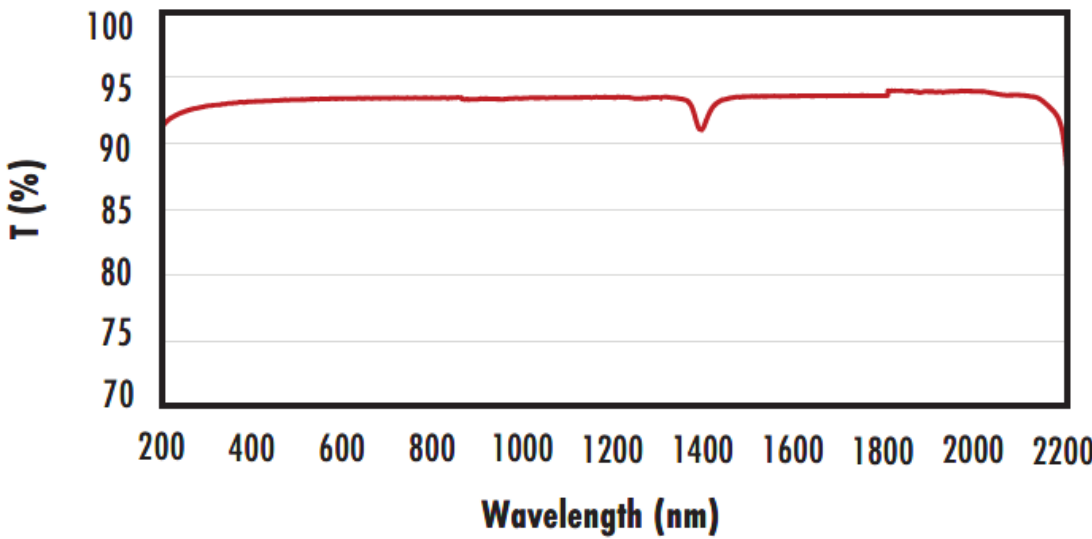
## Description produit

- Traitées AR pour procurer une réflexion <1,0% par surface de 500 à 1100 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°](#), [NIR I](#) et [NIR II](#)

Les Lentilles Plan-Convexes (PCX) en Silice Fondue UV Traitées YAG-BBAR 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 YAG-BBAR 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 YAG-BBAR et se caractérisent par une réflexion inférieure à 0,25 % aux longueurs d'onde courantes des lasers Nd:YAG de 532 nm et 1064 nm.

FUSED SILICA

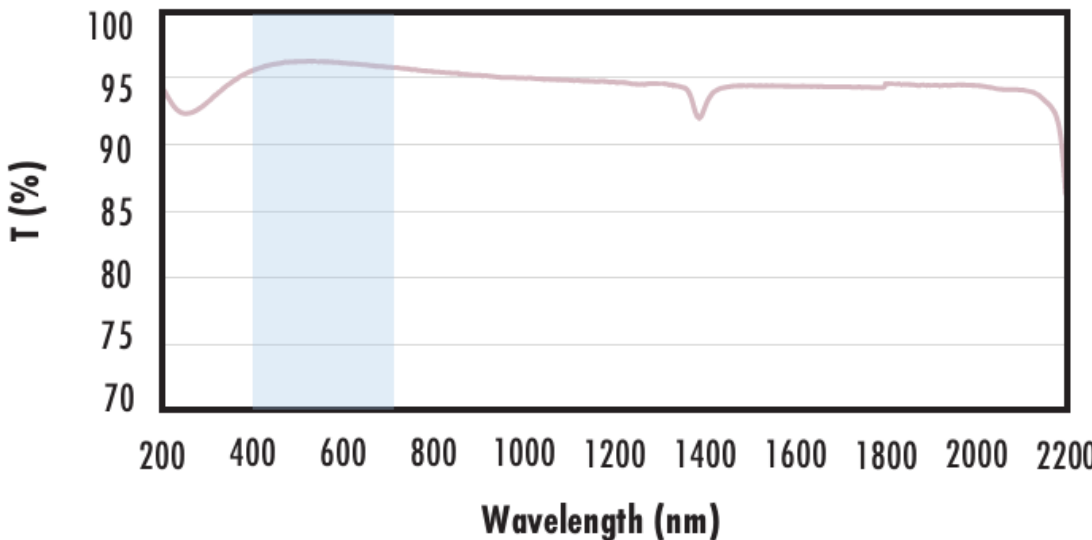
Uncoated Fused Silica  
Typical Transmission



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

[Click Here to Download Data](#)

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



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

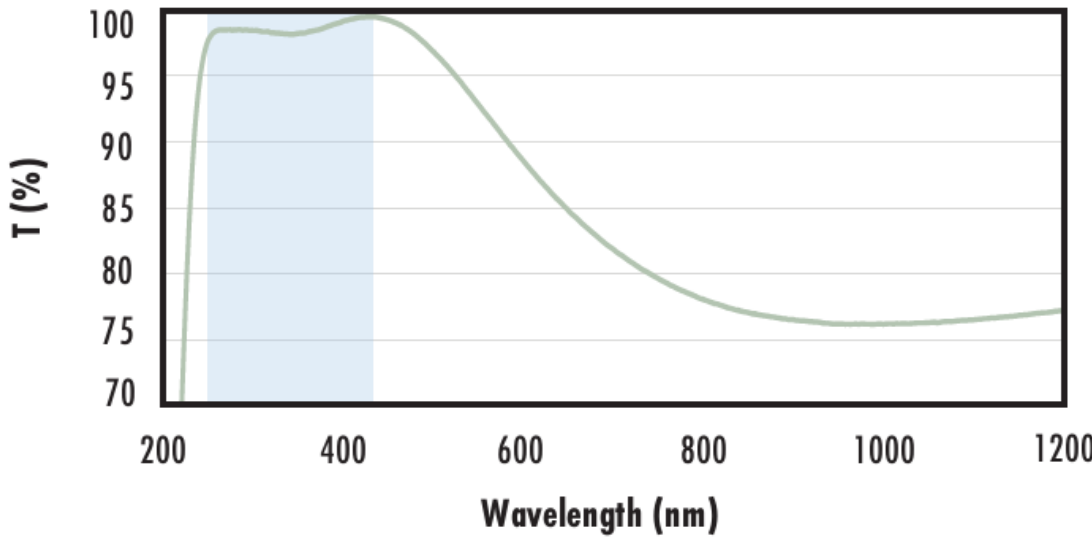
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

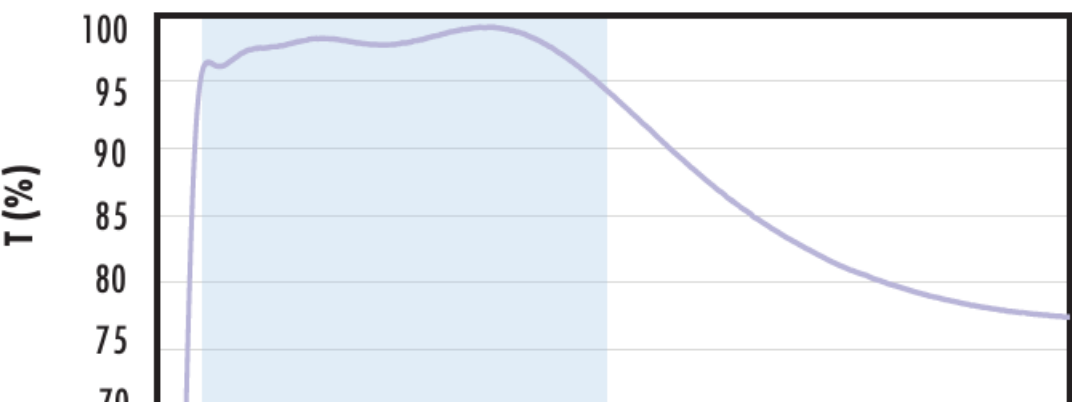
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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



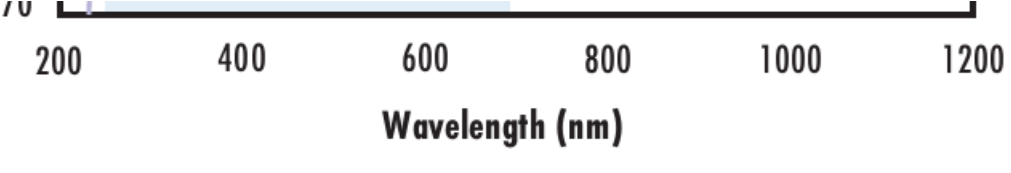
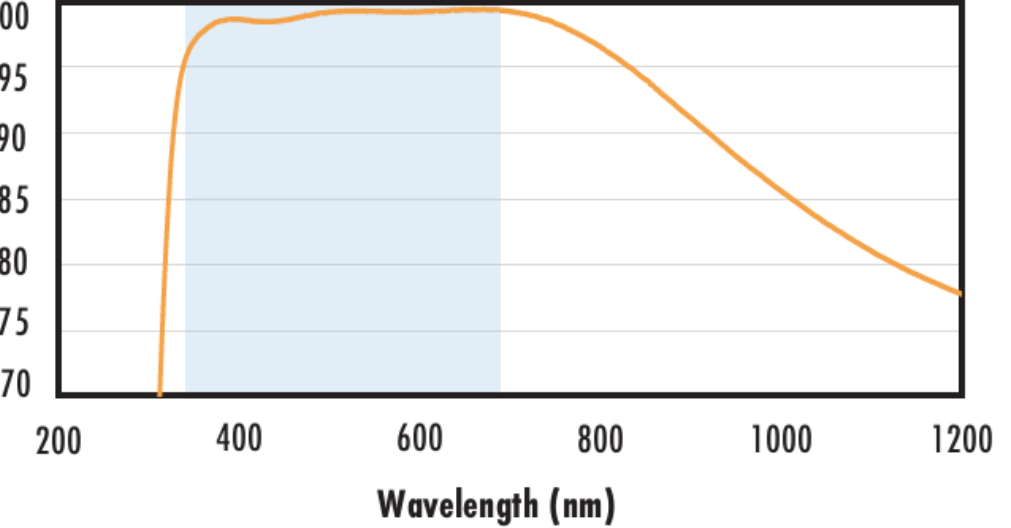
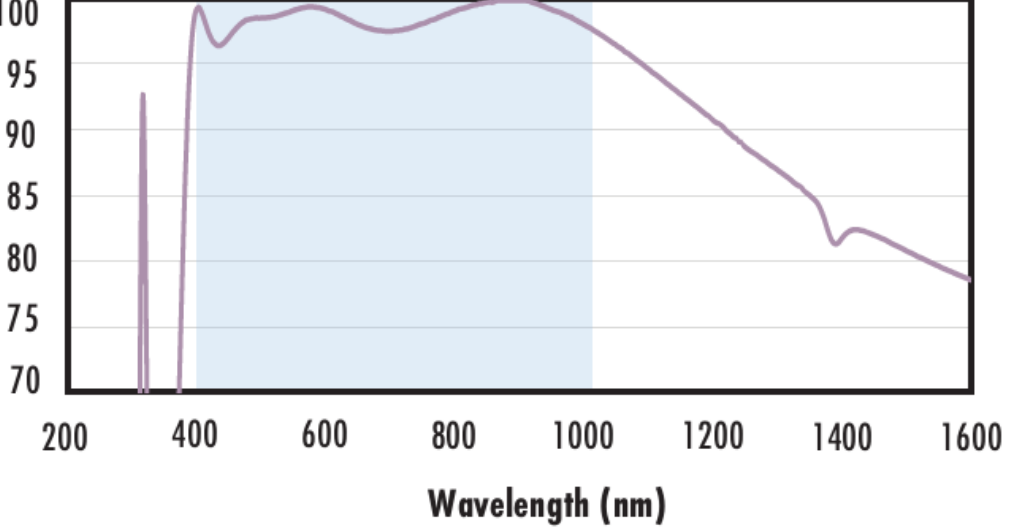
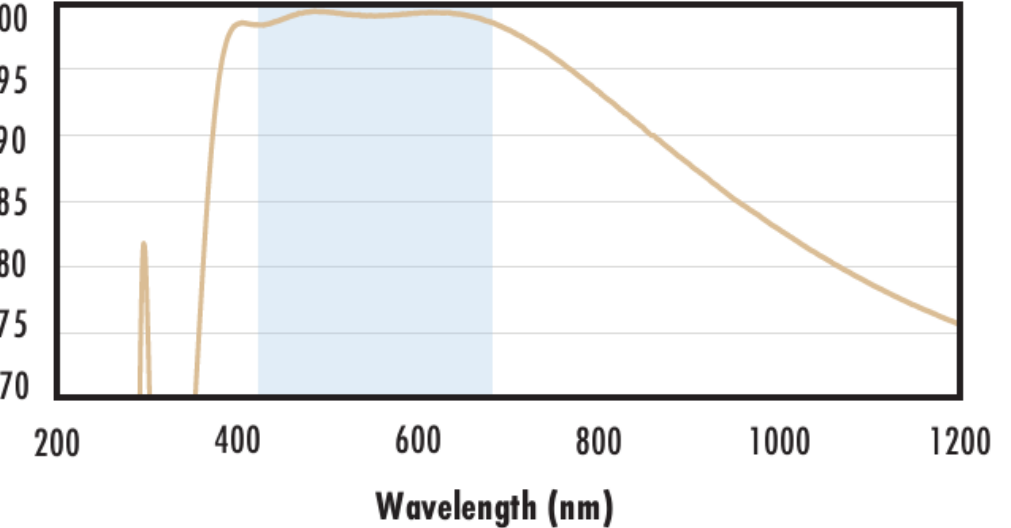
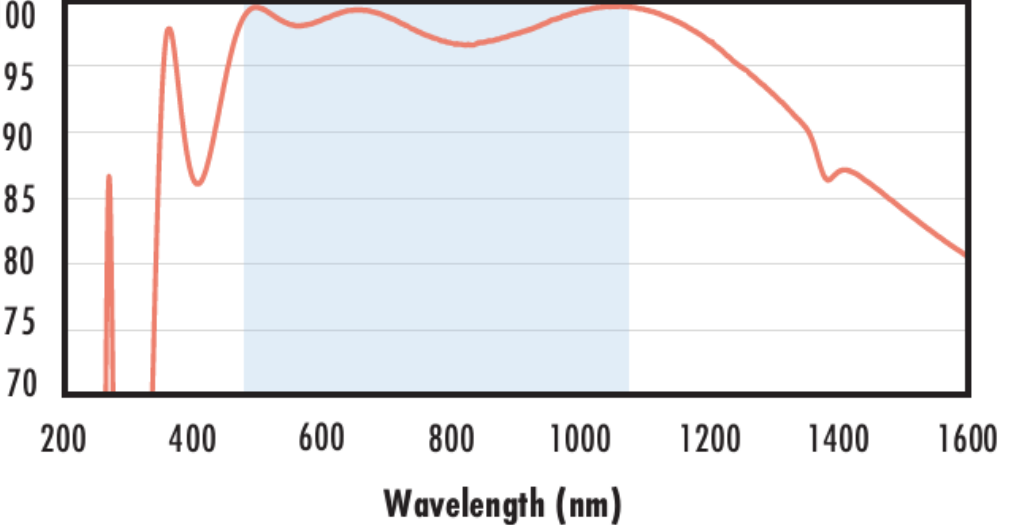
Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

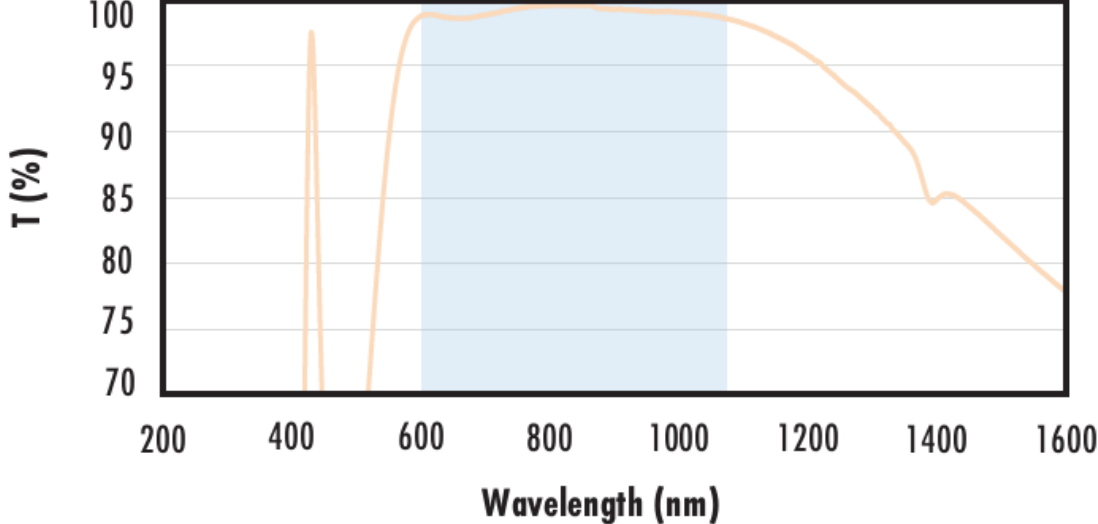
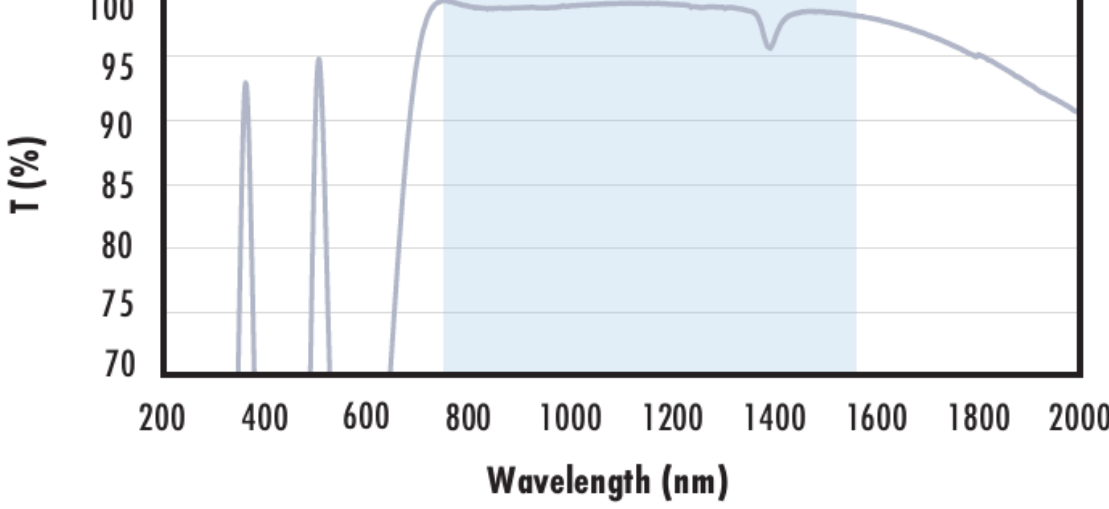
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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="1346 442 1839 489">Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1335 504 1850 552">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 566 1707 590"><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p data-bbox="1346 605 1839 652">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 667 1711 691"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                  |
| <p data-bbox="575 937 1089 1035"><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1346 1083 1839 1130">Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1335 1145 1850 1193">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1497 1207 1688 1231"><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math></p> <p data-bbox="1472 1234 1713 1258"><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math></p> <p data-bbox="1467 1261 1717 1285"><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p> <p data-bbox="1346 1314 1839 1362">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 1377 1711 1400"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="573 1611 1071 1709"><b>Fused Silica with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1331 1786 1854 1834">Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1335 1849 1850 1896">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1911 1707 1935"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p data-bbox="1346 1949 1839 1997">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2012 1711 2036"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                         |
| <p data-bbox="552 2279 1106 2377"><b>Fused Silica with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1346 2433 1839 2481">Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1335 2496 1850 2543">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1493 2558 1688 2582"><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math></p> <p data-bbox="1493 2585 1688 2608"><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math></p> <p data-bbox="1472 2611 1713 2635"><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p> <p data-bbox="1346 2650 1839 2697">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2712 1711 2736"><a href="#">Click Here to Download Data</a></p>      |

|                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div data-bbox="258 127 1283 750"><h3>Fused Silica with NIR I Coating<br/>Typical Transmission</h3></div>    | <div data-bbox="1325 305 1858 557"><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="247 810 1283 1418"><h3>Fused Silica with NIR II Coating<br/>Typical Transmission</h3></div> | <div data-bbox="1325 943 1858 1270"><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> |