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TECHSPEC®

18mm Dia. x 27mm FL, MgF<sub>2</sub> Coated, Plano-Convex Lens



UV Fused Silica Plano-Convex (PCX) Lenses



Stock #17-984

FIN DE SÉRIE

3 In Stock

-

1

+

€108<sup>.00</sup>

AJOUTER AU PANIER

| Prix sur Quantité |                                  |
|-------------------|----------------------------------|
| Qté 1+            | €108,00 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 |                    |
| 18.00 -0.025                       | Diamètre (mm):     |
|                                    | Centrage (arcmin): |

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| <1                                    |                                   |
| 5.50 ±0.10                            | Épaisseur Centrale CT (mm):       |
| 1.62                                  | Épaisseur au Bord ET (mm):        |
| 17                                    | Ouverture Utile CA (mm):          |
| Protective as needed                  | Biseau:                           |
| Propriétés optiques                   |                                   |
| 27.00 @ 587.6nm                       | Distance Focale EFL (mm):         |
| 23.23                                 | Distance Focale Arrière BFL (mm): |
| MgF <sub>2</sub> (400-700nm)          | Traitement:                       |
| R <sub>avg</sub> ≤1.75% @ 400 - 700nm | 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 (%):    |
| 12.38                                 | Rayon R <sub>1</sub> (mm):        |
| 1.5                                   | f/#:                              |
| 0.33                                  | Ouverture Numérique NA:           |
| 400 - 700                             | Gamme de Longueur d'Onde (nm):    |
| 10 J/cm <sup>2</sup> @ 532nm, 10ns    | Damage Threshold, By Design: □    |
| 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

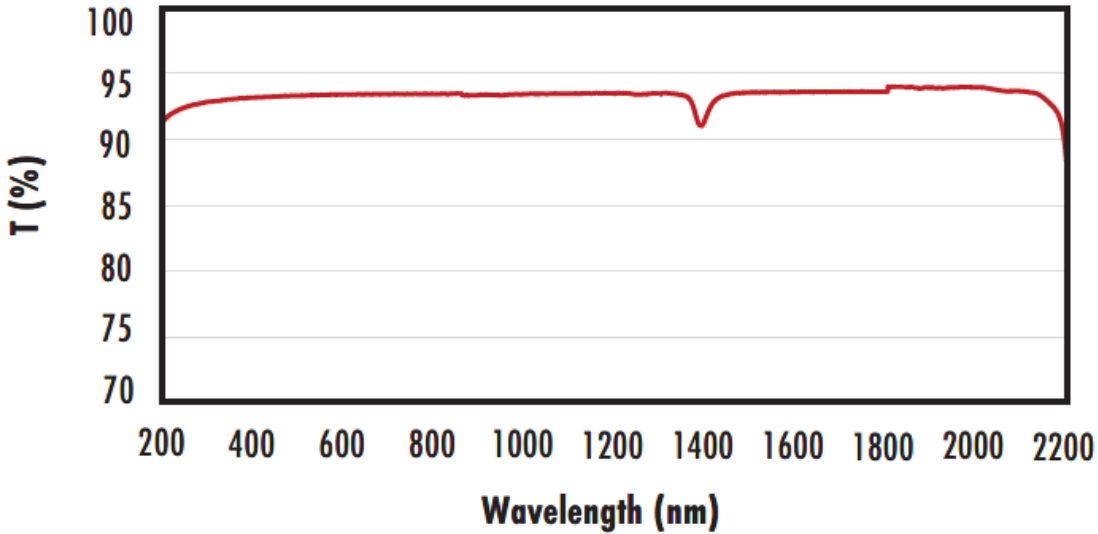
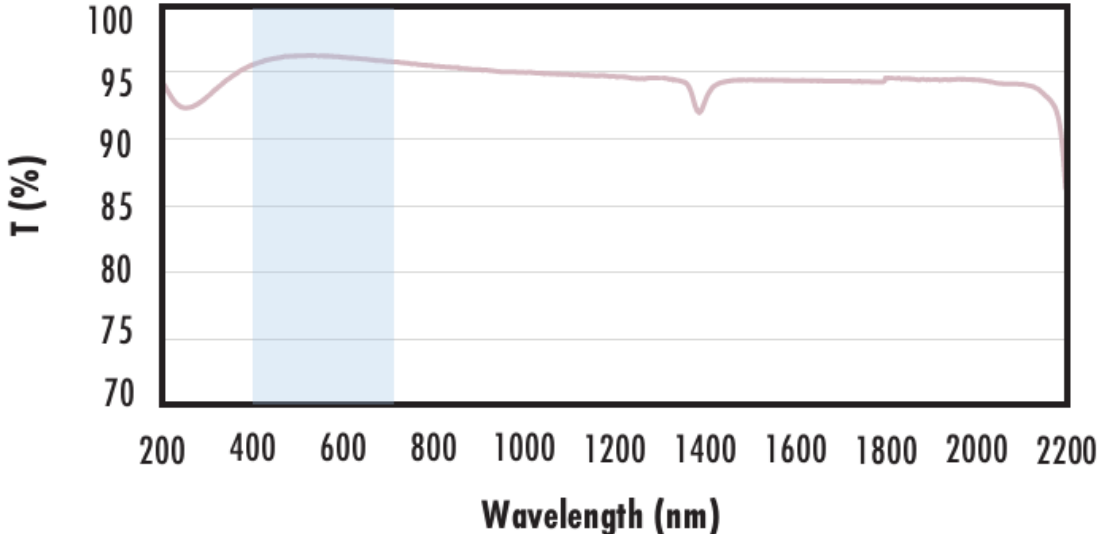
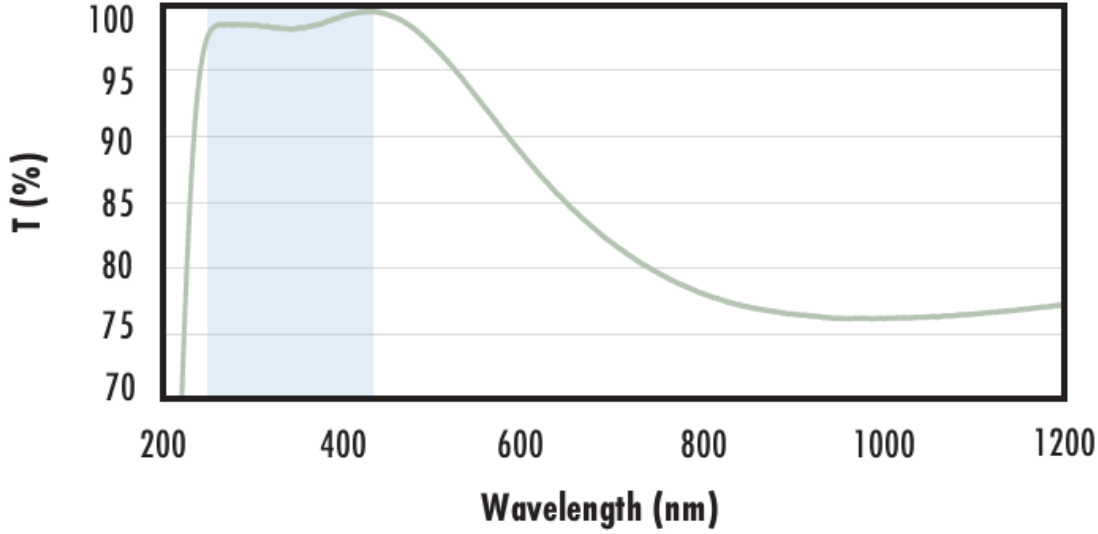
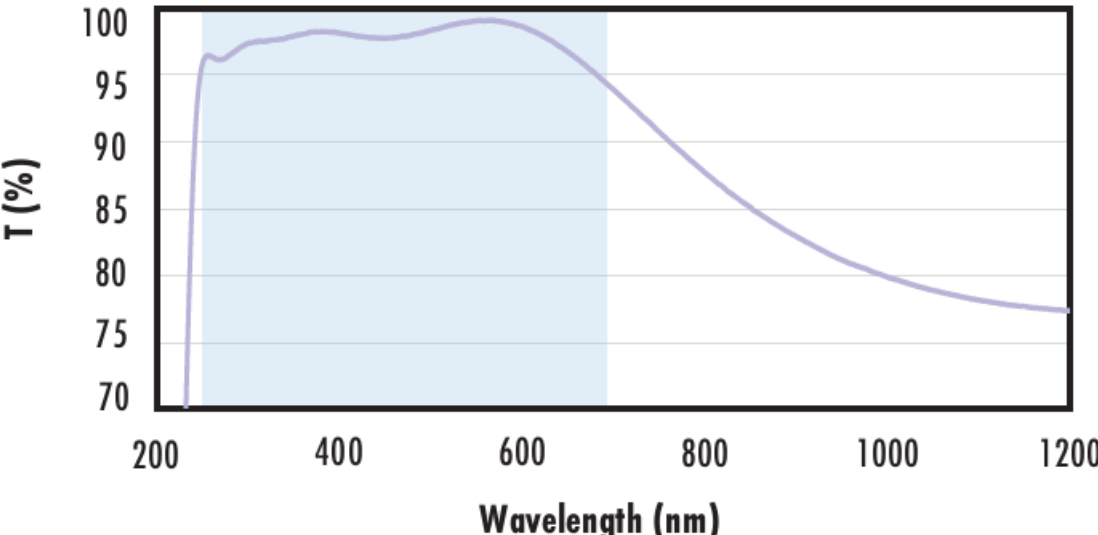
En savoir plus sur nos [capacités de fabrication sur mesure](#) ou soumettre une demande [ici](#).

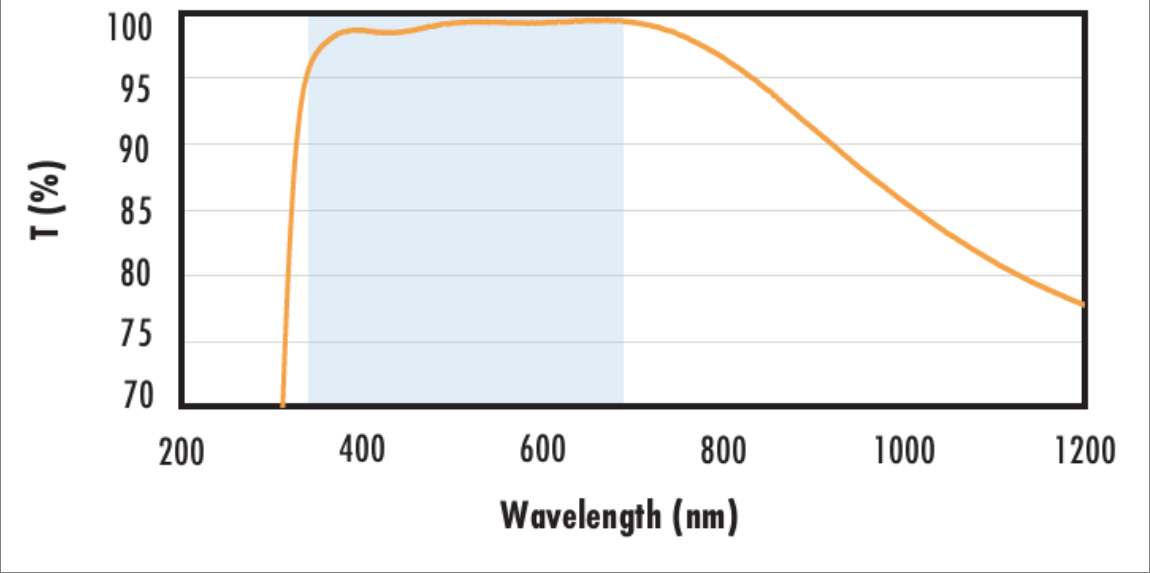
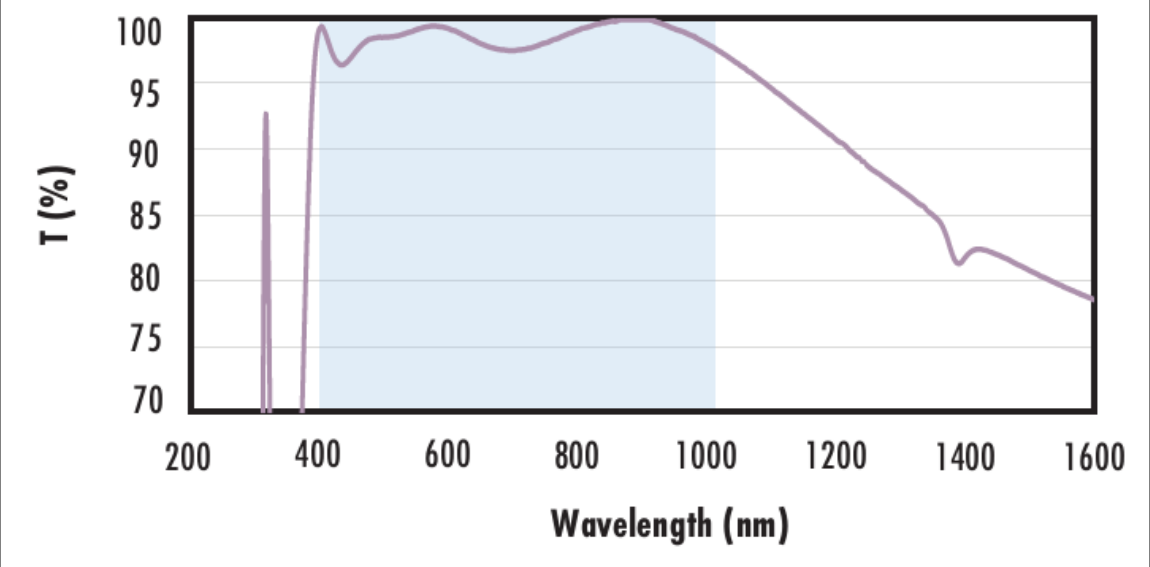
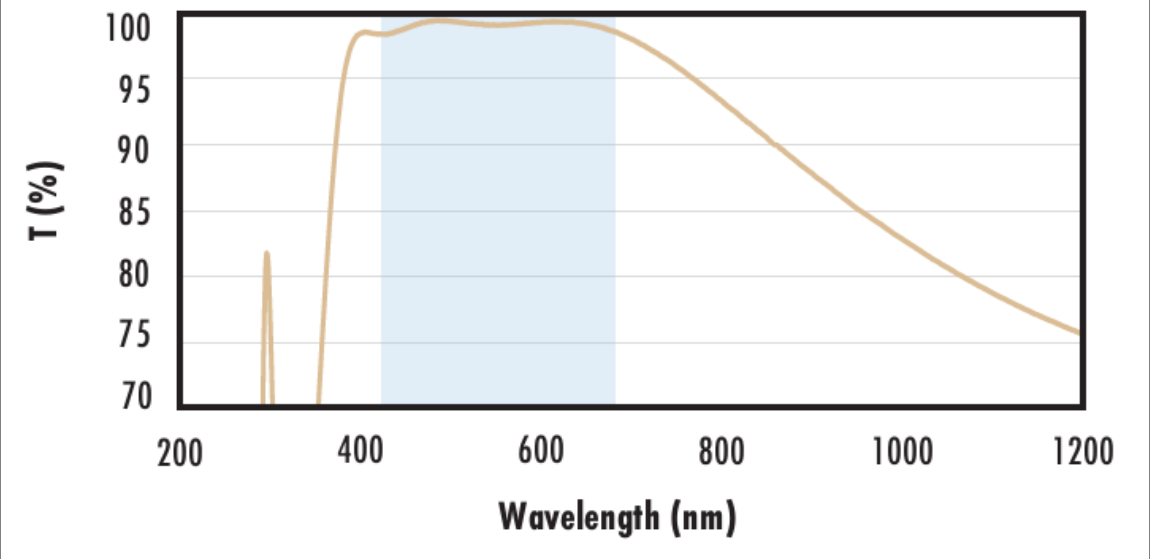
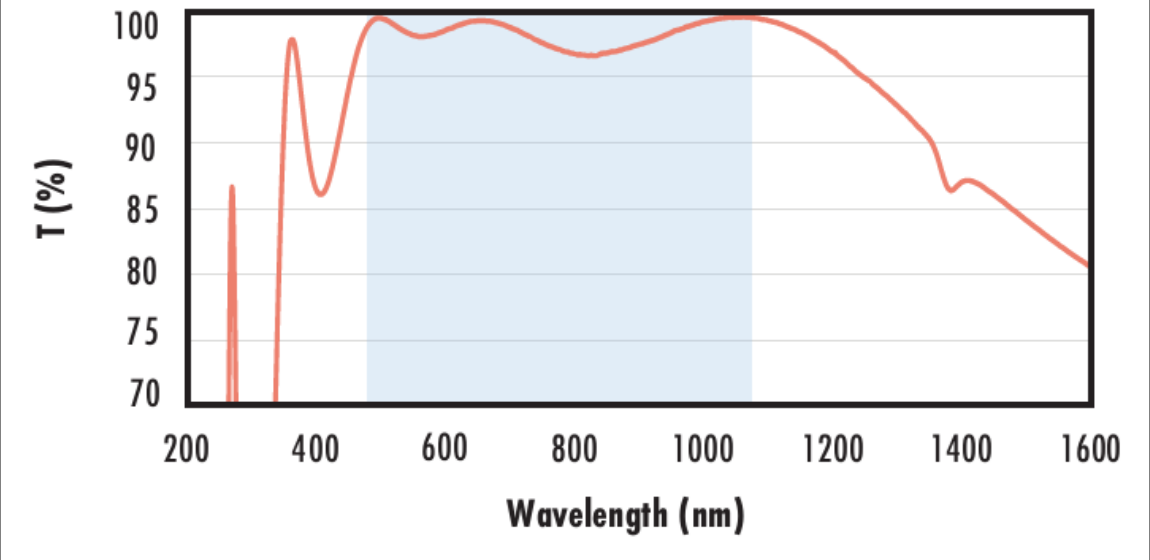
## Description produit

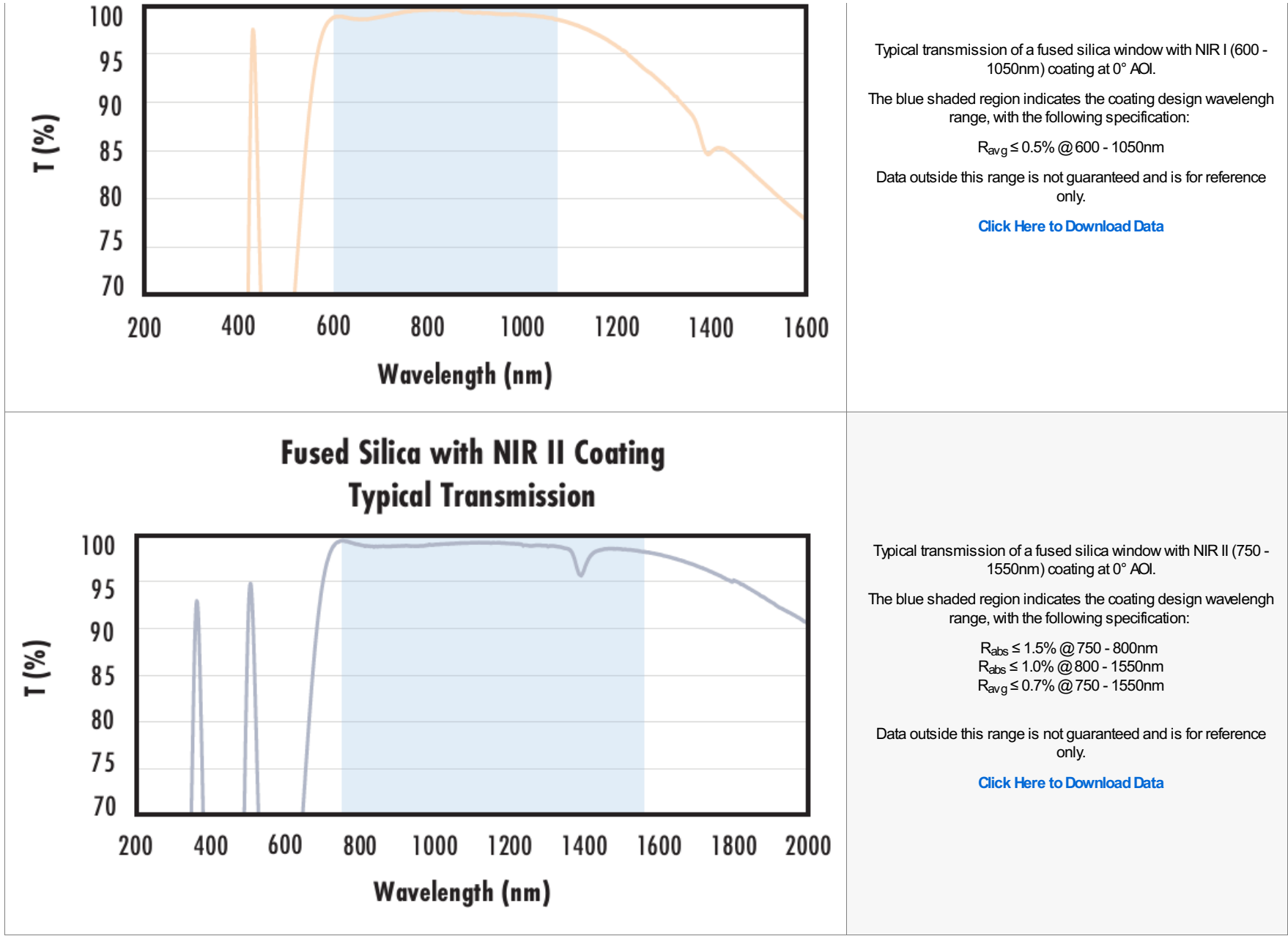
- Traitées AR pour procurer une réflexion <1,75% par surface de 400 à 700 nm
- Substrat en silice fondue de précision
- Diverses options de traitement : [Non Traitées](#), [UV-AR](#), [UV-VIS](#), [VIS-EXT](#), [VIS-NIR](#), [VIS 0°](#), [YAG-BBAR](#), [NIR I](#) et [NIR II](#)

Les Lentilles Plan-Convexes (PCX) en Silice Fondue UV Traitées MgF<sub>2</sub> 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 MgF<sub>2</sub> 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 traitées AR avec du MgF<sub>2</sub> pour augmenter les performances dans la gamme VIS.

## Informations techniques

| FUSED SILICA                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>Uncoated Fused Silica<br/>Typical Transmission</div><div></div></div>                      | <div>Typical transmission of an uncoated fused silica window across the UV - NIR spectra.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <div><div>Fused Silica with MgF<sub>2</sub> Coating<br/>Typical Transmission</div><div></div></div> | <div>Typical transmission of a fused silica window with MgF<sub>2</sub> (400-700nm) 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 1.75\% \text{ @ } 400 - 700\text{nm (N-BK7)}</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 UV-AR Coating<br/>Typical Transmission</div><div></div></div>          | <div>Typical transmission of a fused silica window with UV-AR (250-425nm) 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 1.0\% \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></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 UV-VIS Coating<br/>Typical Transmission</div><div></div></div>         | <div>Typical transmission of a fused silica window with UV-VIS (250-700nm) 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 1.0\% \text{ @ } 350 - 450\text{nm}</math><br/><math>R_{avg} \leq 1.5\% \text{ @ } 250 - 700\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><div>Fused Silica with VIS-EXT Coating</div><div>Typical Transmission</div><div></div></div></div>    | <div><div>Typical transmission of a fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div><div><div><math>R_{avg} \leq 0.5\% \text{ @ } 350 - 700\text{nm}</math></div></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><div><div>Fused Silica with VIS-NIR Coating</div><div>Typical Transmission</div><div></div></div></div>   | <div><div>Typical transmission of a fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div><div><div><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></div></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><div><div>Fused Silica with VIS 0° Coating</div><div>Typical Transmission</div><div></div></div></div>   | <div><div>Typical transmission of a fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div><div><div><math>R_{avg} \leq 0.4\% \text{ @ } 425 - 675\text{nm}</math></div></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><div><div>Fused Silica with YAG-BBAR Coating</div><div>Typical Transmission</div><div></div></div></div> | <div><div>Typical transmission of a fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div><div><div><math>R_{abs} \leq 0.25\% \text{ @ } 532\text{nm}</math><br/><math>R_{abs} \leq 0.25\% \text{ @ } 1064\text{nm}</math><br/><math>R_{avg} \leq 1.0\% \text{ @ } 500 - 1100\text{nm}</math></div></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><div><div>Fused Silica with NIR I Coating</div><div>Typical Transmission</div></div></div>                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



Coating Curves