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TECHSPEC<sup>®</sup> 12mm de Dia. x 48mm EFL, NIR II Bords Noircis, Lentille Biconvexe



Stock **#67-627-INK** CONTACT

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-

1

+

€59<sup>.50</sup>

AJOUTER AU PANIER

| Prix sur Quantité |                                  |
|-------------------|----------------------------------|
| Qté 1-9           | €59,50 prix unitaire             |
| Qté 10-24         | €53,50 prix unitaire             |
| Qté 25-99         | €47,75 prix unitaire             |
| Need More?        | <a href="#">Demande de Devis</a> |

ⓘ Les prix sont indiqués hors TVA et droits applicables.

Espace téléchargement

Caractéristiques du produit

Double-Convex Lens

Type:

Propriétés physiques et mécaniques

|              |                                    |
|--------------|------------------------------------|
| 12.00 ±0.025 | Diamètre (mm):                     |
| <1           | Centrage (arcmin):                 |
| 2.74         | Épaisseur Centrale CT (mm):        |
| ±0.05        | Tolérance Épaisseur Centrale (mm): |
| 2.00         | Épaisseur au Bord ET (mm):         |
| 11.00        | Ouverture Utile CA (mm):           |

Propriétés optiques

|       |                                   |
|-------|-----------------------------------|
| 47.09 | Distance Focale Arrière BFL (mm): |
| 48.00 | Distance Focale EFL (mm):         |

|                                                                                                                        |                              |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|
| NIR II (750-1550nm)                                                                                                    | Traitement:                  |
| R <sub>abs</sub> ≤1.5% @ 750 - 800nm<br>R <sub>abs</sub> ≤1.0% @ 800 - 1550nm<br>R <sub>avg</sub> ≤0.7% @ 750 - 1550nm | Spécification du Traitement: |

|       |                     |
|-------|---------------------|
| N-BK7 | Substrat: □         |
| 40-20 | Qualité de Surface: |

|      |                               |
|------|-------------------------------|
| 1.5λ | Power (P-V) @ 632.8nm:        |
| λ/4  | Irregularity (P-V) @ 632.8nm: |

|       |                                            |
|-------|--------------------------------------------|
| 49.14 | Rayon R <sub>1</sub> =R <sub>2</sub> (mm): |
| 4.00  | f/#:                                       |

|       |                                          |
|-------|------------------------------------------|
| 587.6 | Longueur d'Onde à la Focale Donnée (nm): |
| ±1.00 | Tolérance Distance Focale (%):           |

|            |                                |
|------------|--------------------------------|
| 0.13       | Ouverture Numérique NA:        |
| 750 - 1550 | Gamme de Longueur d'Onde (nm): |

|                        |                                |
|------------------------|--------------------------------|
| 8 J/cm² @ 1064nm, 10ns | Damage Threshold, By Design: □ |
|------------------------|--------------------------------|

Conformité réglementaire

|           |                             |
|-----------|-----------------------------|
| Visionner | Certificate of Conformance: |
|-----------|-----------------------------|

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

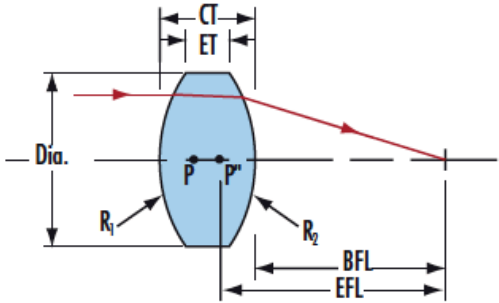
En savoir plus sur nos [capacités de fabrication sur mesure](#) ou soumettre une demande [ici](#).

Description produit

- Traitées AR pour procurer plus de <0,7% réflexion par surface entre 750 - 1.550 nm
- Minimisent les aberrations sphériques et la coma
- **Lentilles DCX en Silice Fondue UV** disponibles
- D'autres options de traitement disponibles : **Non Traitées, MgF<sub>2</sub>, VIS 0°, NIR I, VIS-EXT, VIS-NIR** et **YAG-BBAR**

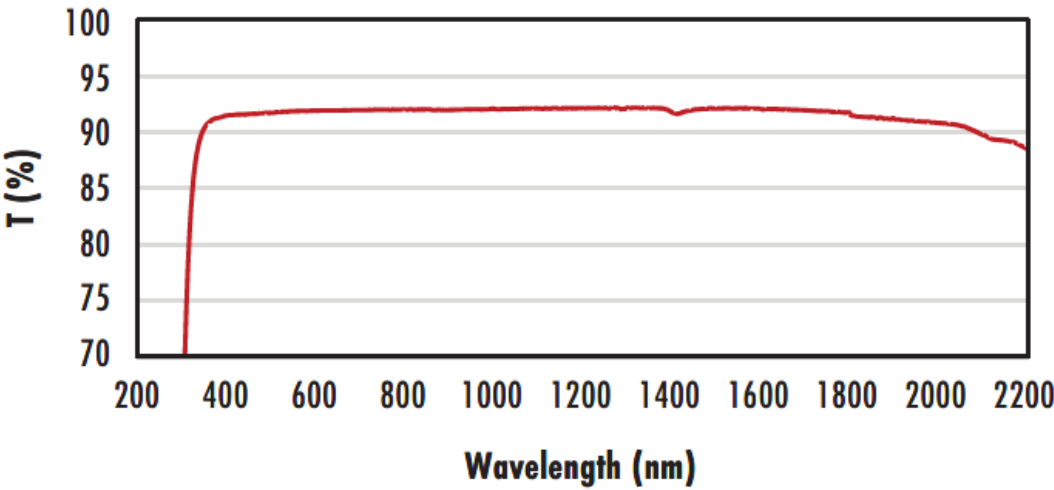
Les Lentilles Biconvexes (DCX) Traitées NIR II TECHSPEC®, également appelées lentilles double-convexes (DCX), ont deux faces positives et symétriques avec des rayons égaux des deux côtés. Ces lentilles sont généralement recommandées pour les applications d'imagerie finie avec un rapport conjugué (rapport entre la distance de l'objet et la distance de l'image) compris entre 0,2 et 5. Pour un rapport conjugué de 1, les aberrations telles que l'aberration sphérique, l'aberration chromatique, la coma et la distorsion sont minimisées ou annulées grâce à la conception symétrique de la lentille. Les Lentilles Biconvexes (DCX) Traitées NIR II TECHSPEC sont disponibles dans une variété de substrats et d'options de traitement pour les spectres visible et NIR.

Informations techniques



N-BK7

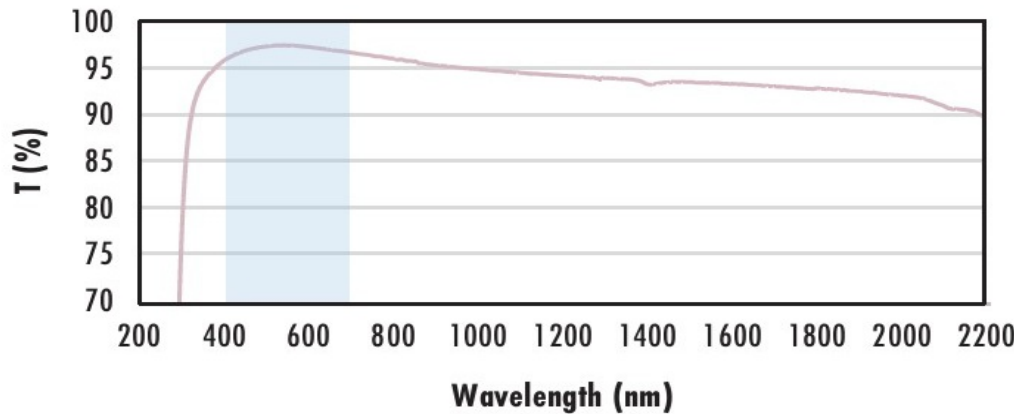
Uncoated N-BK7 Typical Transmission



Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.

[Click Here to Download Data](#)

N-BK7 with MgF<sub>2</sub> Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.

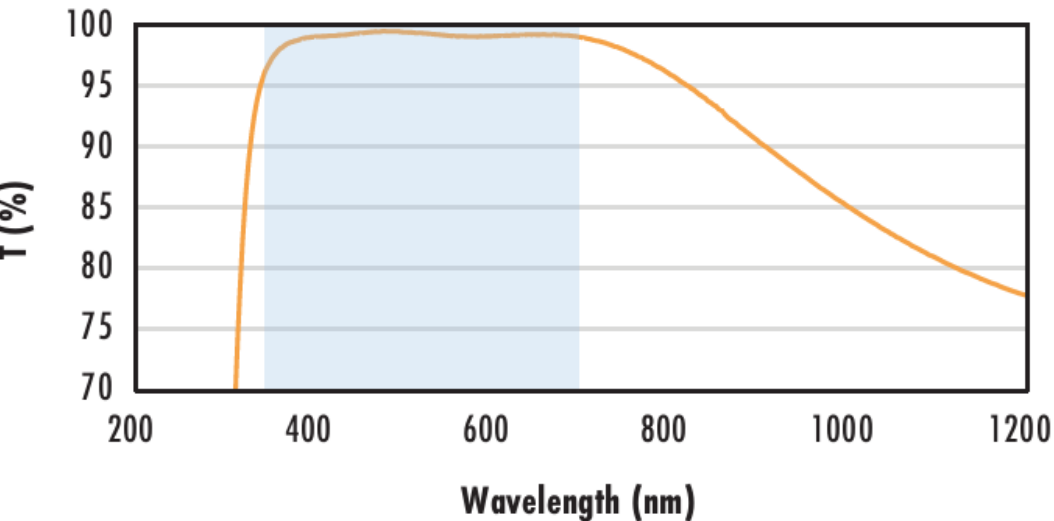
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$  (N-BK7)

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

[Click Here to Download Data](#)

N-BK7 with VIS-EXT Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.

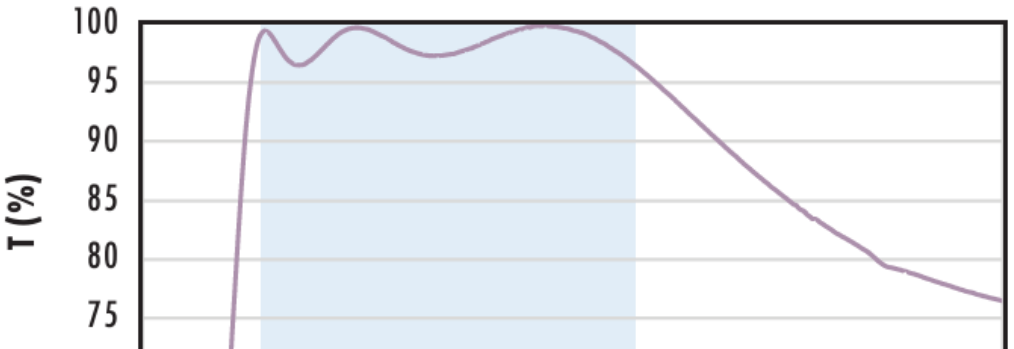
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$

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

[Click Here to Download Data](#)

N-BK7 with VIS-NIR Coating Typical Transmission



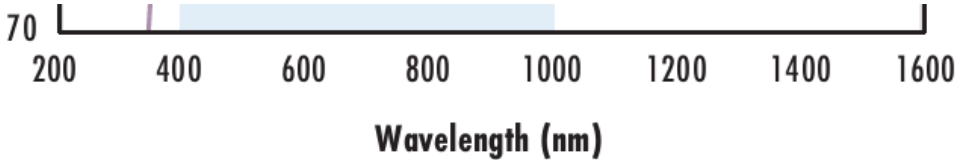
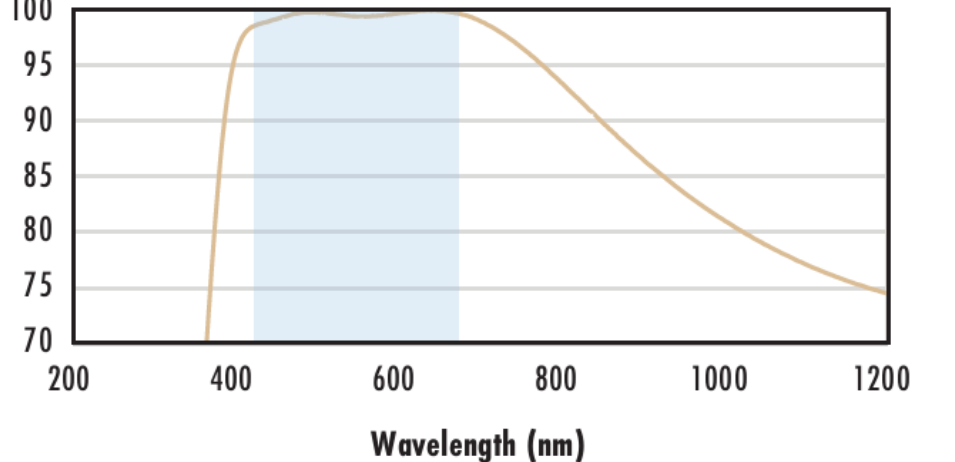
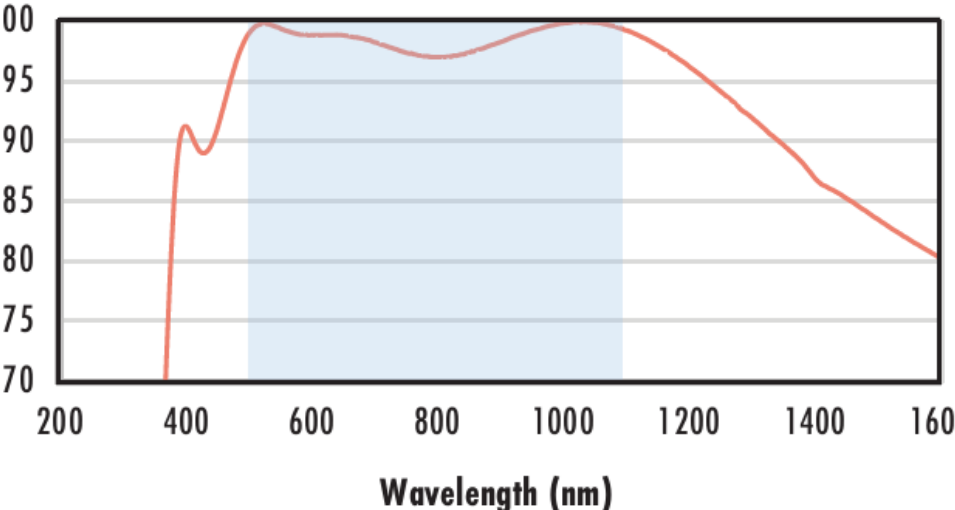
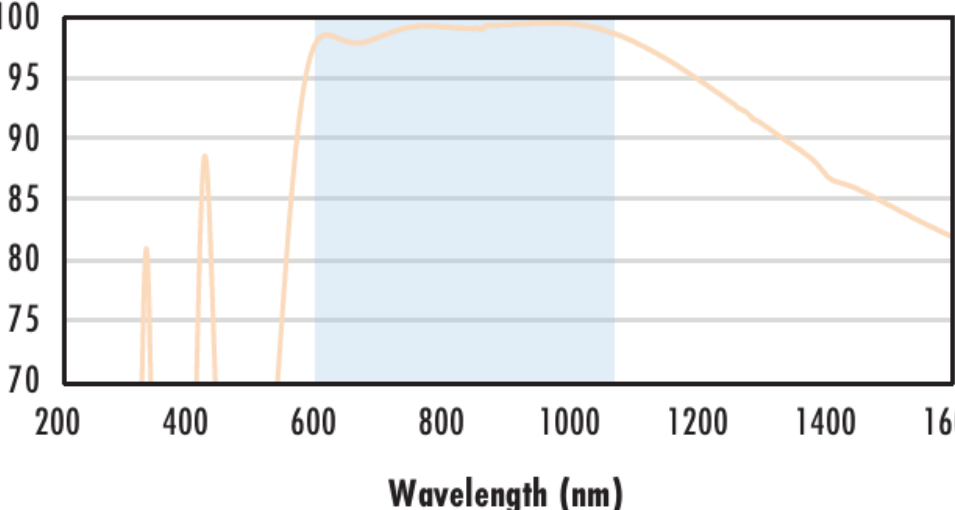
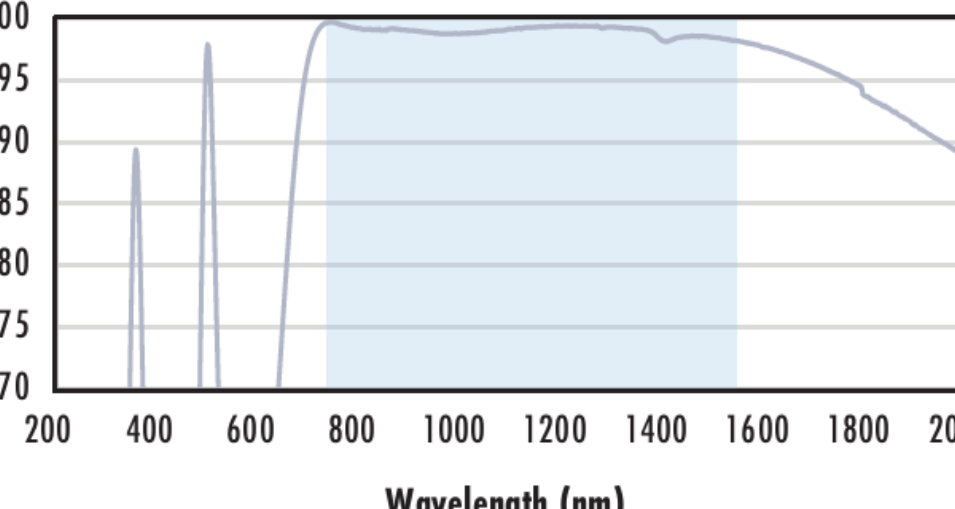
Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.

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

$R_{abs} \leq 0.25\% @ 880\text{nm}$   
 $R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$   
 $R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$

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

[Click Here to Download Data](#)

|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            | <a href="#">Click Here to Download Data</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p data-bbox="596 270 974 359"><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1339 403 1843 454">Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1339 468 1850 519">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 531 1711 555"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p data-bbox="1339 566 1839 617">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 629 1711 652"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                        |
| <p data-bbox="569 863 1037 952"><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1339 997 1843 1047">Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1339 1062 1850 1113">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1124 1688 1148"><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math></p> <p data-bbox="1478 1148 1688 1172"><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math></p> <p data-bbox="1478 1172 1711 1196"><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p> <p data-bbox="1339 1207 1839 1258">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 1270 1711 1294"><a href="#">Click Here to Download Data</a></p>            |
| <p data-bbox="617 1492 1010 1581"><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1339 1656 1843 1706">Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p data-bbox="1339 1721 1850 1771">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1783 1711 1807"><math>R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}</math></p> <p data-bbox="1339 1819 1839 1869">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 1881 1711 1905"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                           |
| <p data-bbox="606 2142 1016 2231"><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1339 2261 1843 2312">Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p data-bbox="1339 2326 1850 2377">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 2389 1711 2412"><math>R_{abs} \leq 1.5\% @ 750 - 800\text{nm}</math></p> <p data-bbox="1478 2412 1711 2436"><math>R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}</math></p> <p data-bbox="1478 2436 1711 2460"><math>R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}</math></p> <p data-bbox="1339 2496 1839 2546">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 2558 1711 2582"><a href="#">Click Here to Download Data</a></p> |

Montures compatibles

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