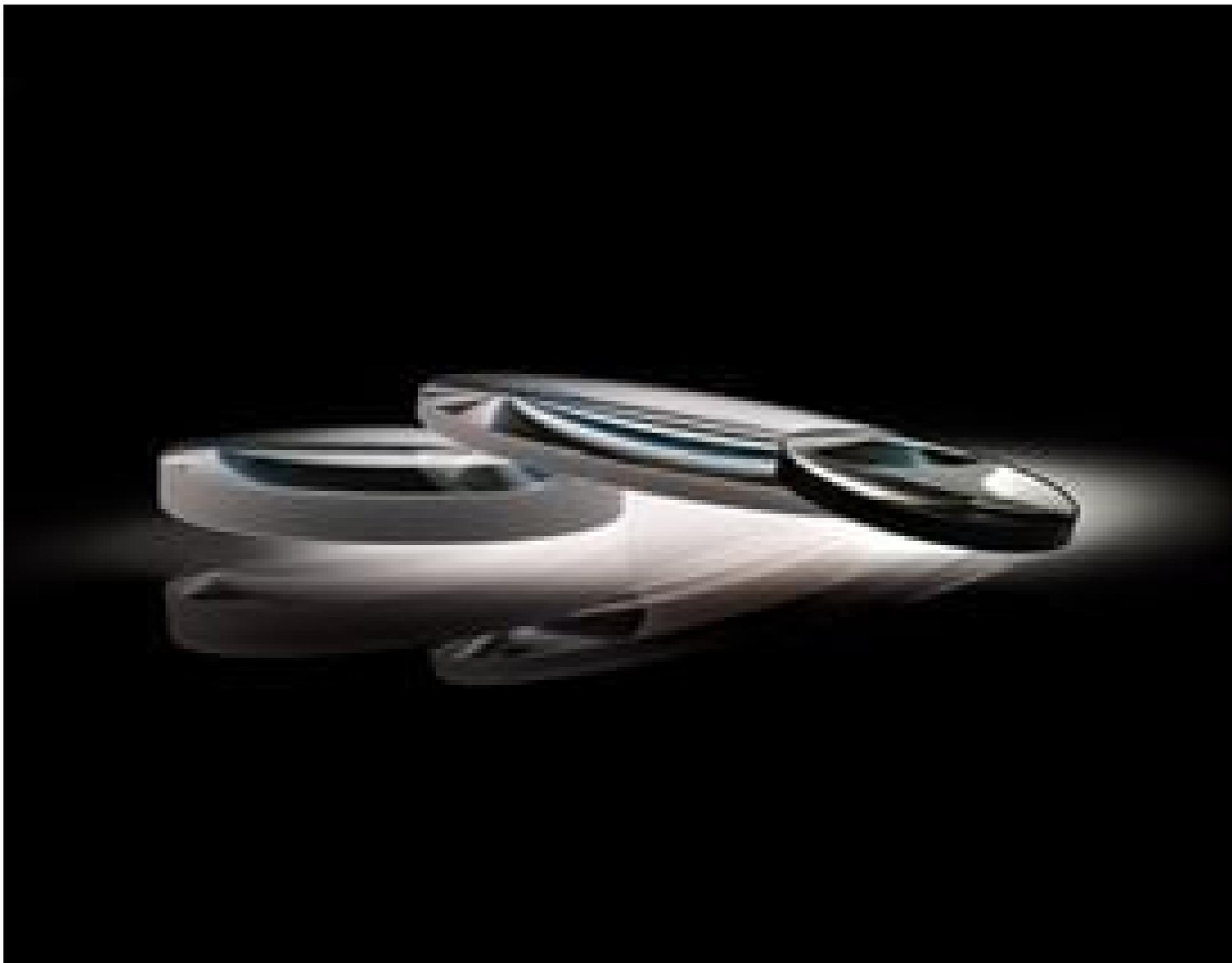


**TECHSPEC®** Doppelkonvexe Linse, 25 mm D. x 200 mm BW, VIS-EXT-Beschichtung



Produkt **#34-190** **5 In Stock**

[Andere Beschichtungen](#)

1  €56<sup>00</sup>

**+ WARENKORB**

Mengenrabatte

|            |                                 |
|------------|---------------------------------|
| Stk. 1-9   | €56,50 stückpreis               |
| Stk. 10-24 | €50,50 stückpreis               |
| Stk. 25-99 | €45,25 stückpreis               |
| Need More? | <a href="#">Angebotsanfrage</a> |

! Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

**Produktdetails**

Double-Convex Lens **Typ:**

**Physikalische und mechanische Eigenschaften**

|                      |                                    |
|----------------------|------------------------------------|
| 25.00 +0.000/-0.025  | <b>Durchmesser (mm):</b>           |
| <1                   | <b>Zentrierung (Bogenminuten):</b> |
| Protective as needed | <b>Fase:</b>                       |
| 5.00                 | <b>Mittendicke CT (mm):</b>        |
| ±0.10                | <b>Toleranz Mittendicke (mm):</b>  |
| 4.24                 | <b>Randdicke ET (mm):</b>          |
| 24.00                | <b>Freie Apertur CA (mm):</b>      |

## Optische Eigenschaften

|                                      |   |
|--------------------------------------|---|
| 198.35                               | <b>Hintere Brennweite BFL (mm):</b>             |
| 200.00                               | <b>Effektive Brennweite EFL (mm):</b>           |
| VIS-EXT (350-700nm)                  | <b>Beschichtung:</b>                            |
| R <sub>avg</sub> <0.5% @ 350 - 700nm | <b>Beschichtungsspezifikation:</b>              |
| <b>N-BK7</b>                         | <b>Substrat:</b> <input type="checkbox"/>       |
| 40-20                                | <b>Oberflächenqualität:</b>                     |
| 1.5λ                                 | <b>Power (P-V) @ 632,8 nm:</b>                  |
| λ/4                                  | <b>Unregelmäßigkeit (P-V) @ 632,8 nm:</b>       |
| 205.865                              | <b>Radius R<sub>1</sub>=R<sub>2</sub> (mm):</b> |
| 8.00                                 | <b>Blende:</b>                                  |
| 587.6                                | <b>Designwellenlänge Brennweite (nm):</b>       |
| ±1                                   | <b>Toleranz Brennweite (%):</b>                 |
| 0.06                                 | <b>Numerische Apertur NA:</b>                   |
| 350 - 700                            | <b>Wellenlängenbereich (nm):</b>                |

## Konformität mit Standards

|                 |                                |
|-----------------|--------------------------------|
| <b>Konform</b>  | <b>RoHS 2015:</b>              |
| <b>Anzeigen</b> | <b>Konformitätszertifikat:</b> |
| <b>Konform</b>  | <b>Reach 235:</b>              |

## Produktdetails

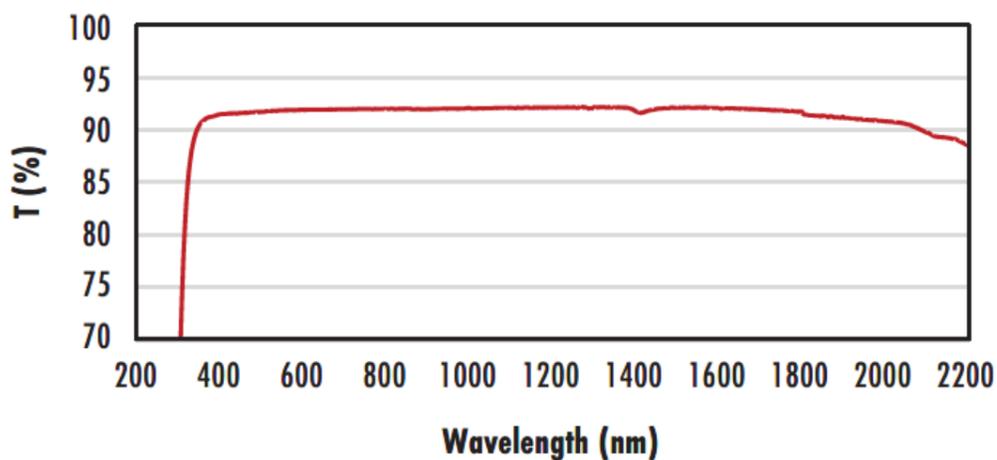
- AR-beschichtet für <0,5% Reflexion pro Oberfläche zwischen 350 - 700 nm
- Minimieren Aberrationen wie sphärische Aberration oder Koma
- **DCX-Linsen aus UV-Quarzglas** sind ebenfalls verfügbar
- Weitere Beschichtungen verfügbar: **Unbeschichtet, MgF<sub>2</sub>, VIS 0°, VIS-NIR, NIR I, NIR II** und **YAG-BBAR**

Die TECHSPEC® DCX-Linsen mit AR-Beschichtung VIS-EXT, auch bikonvexe Linsen genannt, haben zwei positive, symmetrische Oberflächen mit gleichem Krümmungsradius auf beiden Seiten. Die Linsen werden generell für Bildgebungen mit endlichem Abstand und Konjugiertenverhältnis (Verhältnis zwischen Objekt- und Bildweite) zwischen 0,2 und 5 empfohlen. Bei einem Konjugiertenverhältnis von 1 sind Aberrationen wie sphärische Aberration, chromatische Aberration, Koma und Verzeichnung aufgrund des symmetrischen Linsendesigns minimiert oder sogar ganz eliminiert. Die TECHSPEC® doppelkonvexen Linsen sind mit verschiedenen Substraten und verschiedenen Beschichtungsoptionen für VIS und NIR verfügbar.

## Technische Informationen

N-BK7

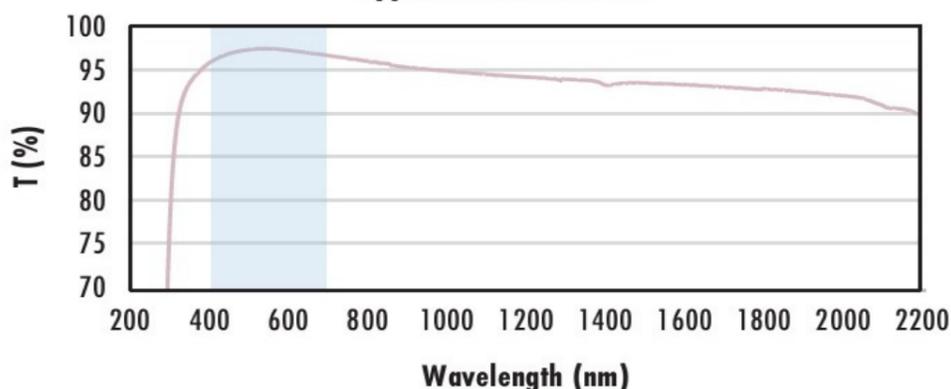
**Uncoated N-BK7 Typical Transmission**



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.

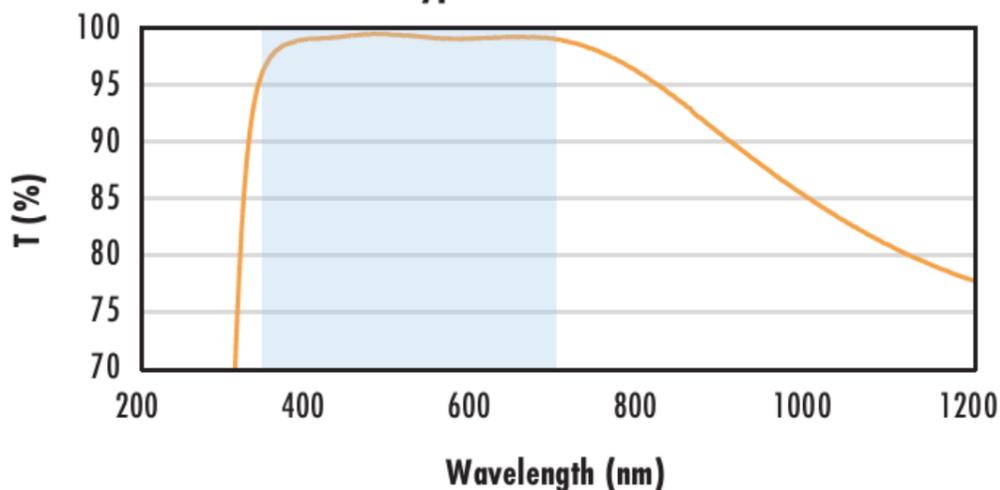
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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.

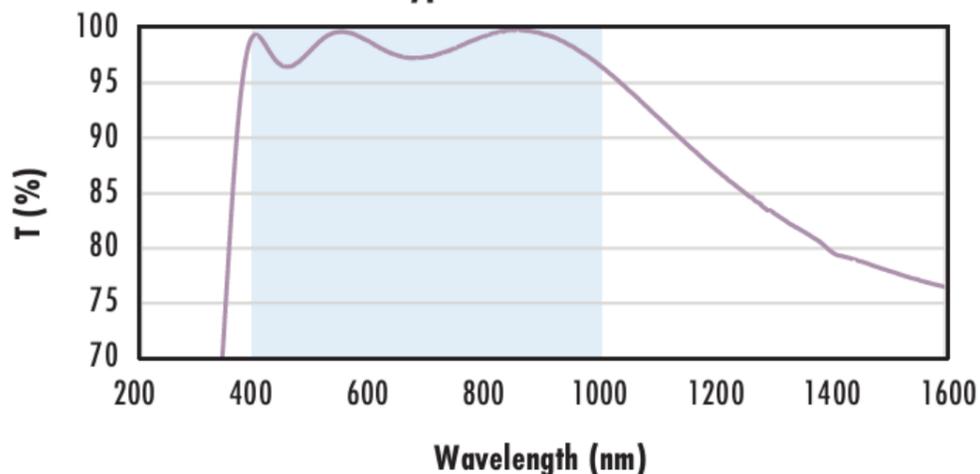
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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:

$$R_{abs} \leq 0.25\% @ 880\text{nm}$$

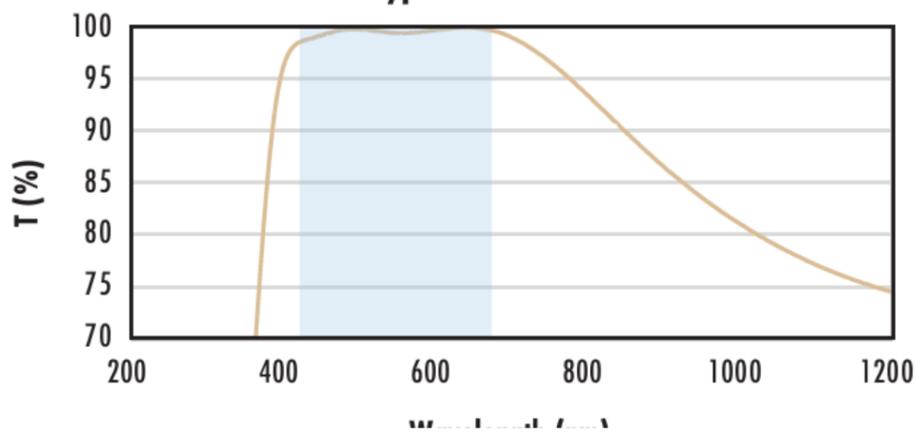
$$R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$$

$$R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$$

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

[Click Here to Download Data](#)

**N-BK7 with VIS 0° Coating  
Typical Transmission**



Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.

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

$$R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$$

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

[Click Here to Download Data](#)

| Wavelength (nm)  |  |
|--|--|
| <p><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p> <p style="text-align: center;">Wavelength (nm)</p> | <p>Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p style="text-align: center;"><math>R_{abs} \leq 0.25\% @ 532nm</math><br/> <math>R_{abs} \leq 0.25\% @ 1064nm</math><br/> <math>R_{avg} \leq 1.0\% @ 500 - 1100nm</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p style="text-align: center;"><a href="#">Click Here to Download Data</a></p>           |
| <p><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p> <p style="text-align: center;">Wavelength (nm)</p>    | <p>Typical transmission of a 3mm thick N-BK7 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 style="text-align: center;"><math>R_{avg} \leq 0.5\% @ 600 - 1050nm</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p style="text-align: center;"><a href="#">Click Here to Download Data</a></p>   |
| <p><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></p> <p style="text-align: center;">Wavelength (nm)</p>   | <p>Typical transmission of a 3mm thick N-BK7 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 style="text-align: center;"><math>R_{abs} \leq 1.5\% @ 750 - 800nm</math><br/> <math>R_{abs} \leq 1.0\% @ 800 - 1550nm</math><br/> <math>R_{avg} \leq 0.7\% @ 750 - 1550nm</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p style="text-align: center;"><a href="#">Click Here to Download Data</a></p> |

**Kompatible Halterungen**