

TECHSPEC®

Doppelkonvexe Linse, 30 mm D. x 100 mm BW, geschwärzt, VIS-EXT-Beschichtung



Produkt **#89-191** **6 In Stock**

[Andere Beschichtungen](#)

⊖ 1 ⊕ €66.⁰⁰

+ WARENKORB

Mengenrabatte	
Stk. 1-9	€66,00 stückpreis
Stk. 10-24	€59,50 stückpreis
Stk. 25-99	€53,00 stückpreis
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ⓘ Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Double-Convex Lens **Typ:**

Physikalische und mechanische Eigenschaften

30.00 +0.000/-0.025	Durchmesser (mm):
<1	Zentrierung (Bogenminuten):
Protective as needed	Fase:
5.00	Mittendicke CT (mm):
±0.10	Toleranz Mittendicke (mm):
2.79	Randdicke ET (mm):
29.00	Freie Apertur CA (mm):

Optische Eigenschaften

98.34	Hintere Brennweite BFL (mm):
100.00	Effektive Brennweite EFL (mm):
VIS-EXT (350-700nm)	Beschichtung:
R _{avg} <0.5% @ 350 - 700nm	Beschichtungsspezifikation:
N-BK7	Substrat: □
40-20	Oberflächenqualität:
1.5λ	Power (P-V) @ 632,8 nm:
λ/4	Unregelmäßigkeit (P-V) @ 632,8 nm:
102.5	Radius R₁=R₂ (mm):
3.33	Blende:
587.6	Designwellenlänge Brennweite (nm):
±1	Toleranz Brennweite (%):
0.15	Numerische Apertur NA:
350 - 700	Wellenlängenbereich (nm):

Konformität mit Standards

Konform	RoHS 2015:
Anzeigen	Konformitätszertifikat:
Konform	Reach 235:

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

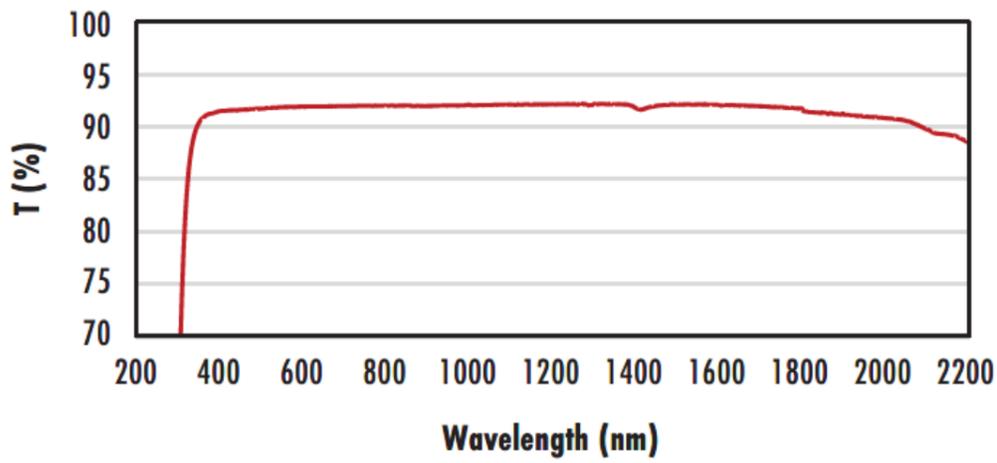
- Weitere Beschichtungen verfügbar: **Unbeschichtet**, **MgF₂**, **VIS 0°**, **VIS-NIR**, **NIR I**, **NIR II** und **YAG-BBAR**

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

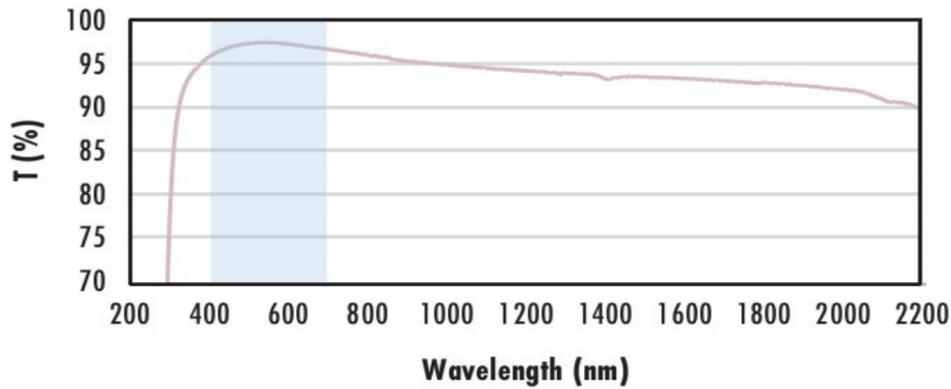
Uncoated N-BK7 Typical Transmission



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

[Click Here to Download Data](#)

**N-BK7 with MgF₂ Coating
Typical Transmission**



Typical transmission of a 3mm thick N-BK7 window with MgF₂ (400-700nm) coating at 0° AOI.

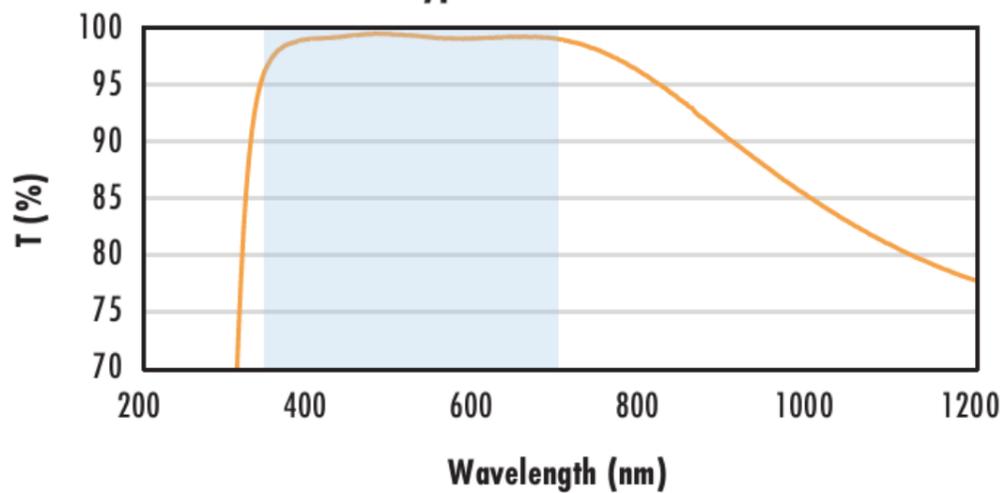
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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.

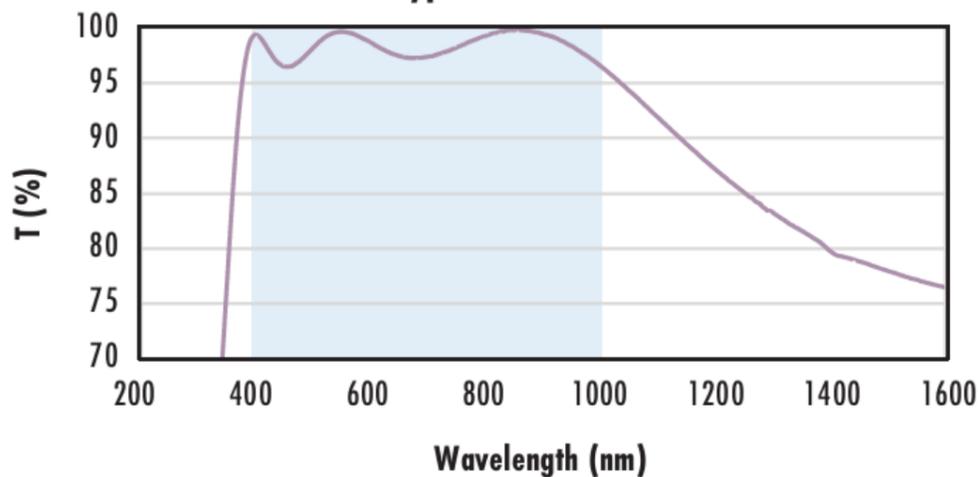
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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:

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

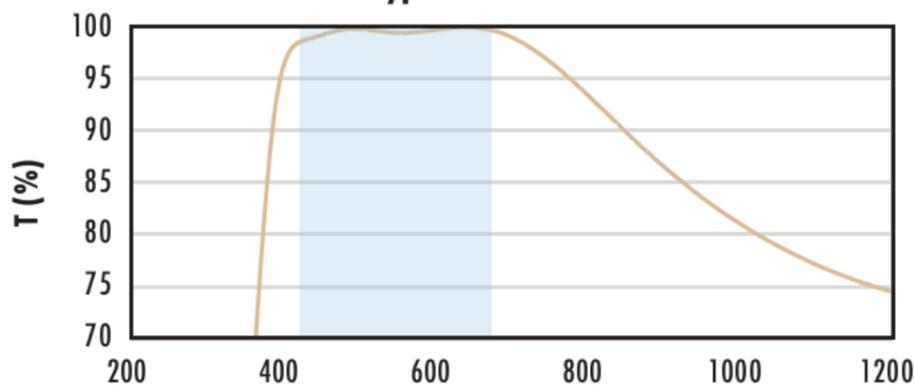
$$R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$$

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

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.

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Wavelength (nm)	
<p style="text-align: center;">N-BK7 with YAG-BBAR Coating Typical Transmission</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;">$R_{abs} \leq 0.25\% @ 532nm$ $R_{abs} \leq 0.25\% @ 1064nm$ $R_{avg} \leq 1.0\% @ 500 - 1100nm$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p style="text-align: center;">Click Here to Download Data</p>
<p style="text-align: center;">N-BK7 with NIR I Coating Typical Transmission</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;">$R_{avg} \leq 0.5\% @ 600 - 1050nm$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p style="text-align: center;">Click Here to Download Data</p>
<p style="text-align: center;">N-BK7 with NIR II Coating Typical Transmission</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;">$R_{abs} \leq 1.5\% @ 750 - 800nm$ $R_{abs} \leq 1.0\% @ 800 - 1550nm$ $R_{avg} \leq 0.7\% @ 750 - 1550nm$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p style="text-align: center;">Click Here to Download Data</p>

Kompatible Halterungen