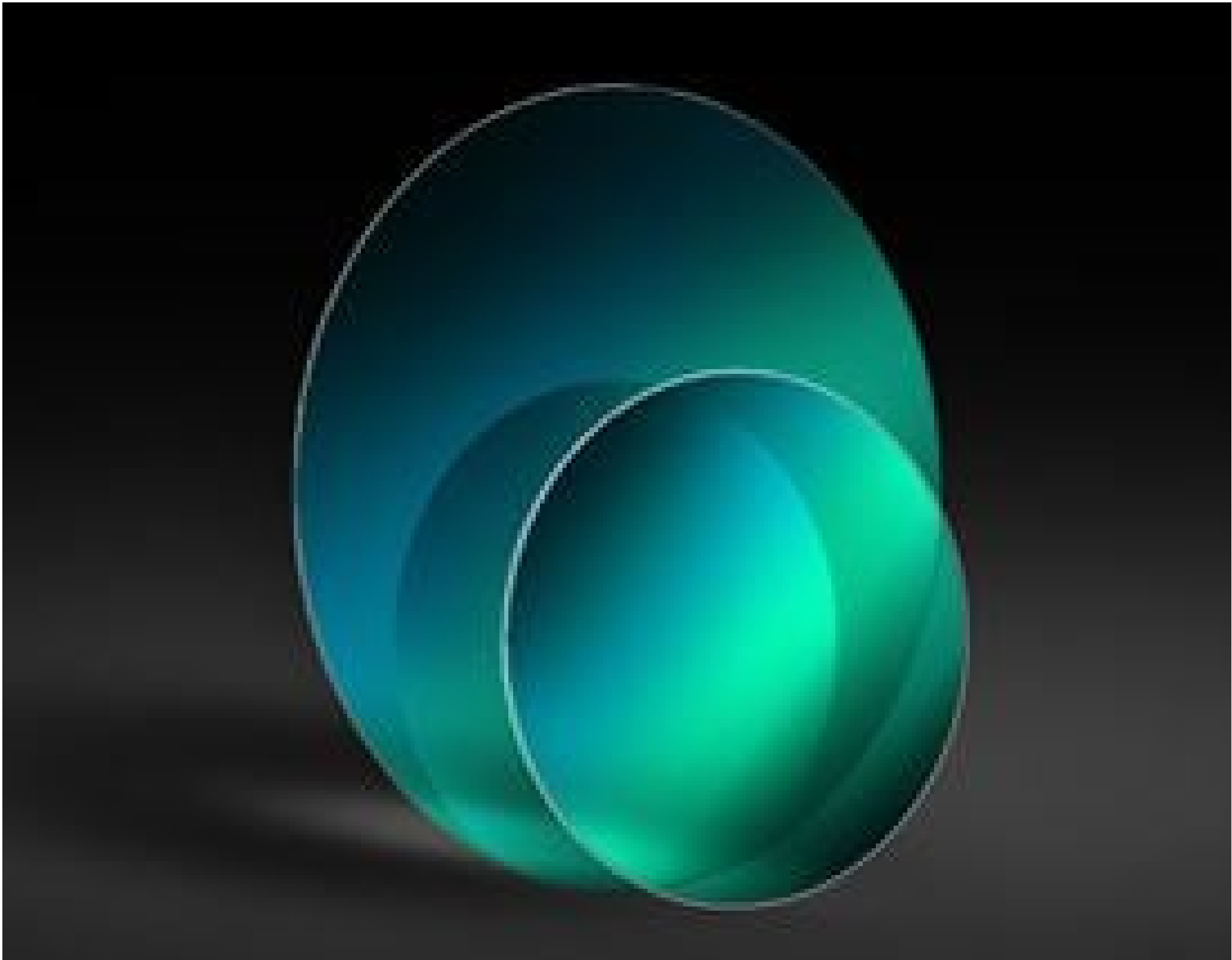


TECHSPEC<sup>®</sup>Ultradünnes N-BK7-Fenster, 12,5 mm Durchmesser, MgF<sub>2</sub>-beschichtet

Mehr Produkte von [SCHOTT Optical Components](#)



Ultra-Thin N-BK7 Windows

Produkt **#66-194** 20+ In Stock

-

1

+

€119<sup>,00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-5      | €119,00 stückpreis              |
| Stk. 6-25     | €95,00 stückpreis               |
| Stk. 26-49    | €89,00 stückpreis               |
| Need More?    | <a href="#">Angebotsanfrage</a> |

ⓘ Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Protective Window

Typ:

Physikalische und mechanische Eigenschaften

11.25

Freie Apertur CA (mm):

|                      |                               |
|----------------------|-------------------------------|
| 12.50 +0.00/-0.10    | Durchmesser (mm):             |
| 0.20 ±0.025          | Dicke (mm):                   |
| Protective as needed | Fase:                         |
| Fine Ground          | Kanten:                       |
| <30                  | Parallelität (Bogensekunden): |
| 0.21                 | Poisson-Zahl:                 |
| 82                   | Elastizitätsmodul (GPa):      |
| 610.00               | Knoop-Härte (kg/mm²):         |

Optische Eigenschaften

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| MgF <sub>2</sub> (400-700nm)          | Beschichtung:                     |
| N-BK7                                 | Substrat: □                       |
| 1.516                                 | Brechungsindex (n <sub>d</sub> ): |
| 20-10                                 | Oberflächenqualität:              |
| λ/2                                   | Transmittierte Wellenfront, P-V:  |
| 64.17                                 | Abbe-Zahl (v <sub>d</sub> ):      |
| R <sub>avg</sub> ≤1.75% @ 400 - 700nm | Beschichtungsspezifikation:       |
| 400 - 700                             | Wellenlängenbereich (nm):         |
| 10 J/cm² @ 532nm, 10ns                | Zerstörschwelle, Referenz: □      |

Materialeigenschaften

|                                           |                                                                |
|-------------------------------------------|----------------------------------------------------------------|
| 2.51                                      | Dichte (g/cm³):                                                |
| 7.1 (-30 to +70°C)<br>8.3 (+20 to +300°C) | Thermischer Ausdehnungskoeffizient CTE (10 <sup>-6</sup> /°C): |

Konformität mit Standards

|          |                         |
|----------|-------------------------|
| Konform  | RoHS 2015:              |
| Konform  | Reach 219:              |
| Anzeigen | Konformitätszertifikat: |

## Gewünschte Spezifikationen nicht dabei?

Edmund Optics bietet einen umfangreichen kundenspezifischen Fertigungsservice für Optik- und Bildverarbeitungskomponenten an, speziell hergestellt für Ihre Anwendungsanforderungen. Wir ermöglichen flexible Lösungen für Ihre Bedürfnisse – von der Prototypenphase bis zur Serienfertigung. Unsere erfahrenen IngenieurInnen freuen sich auf die Zusammenarbeit und unterstützen Sie bei jedem Projektschritt.

Unser Service beinhaltet:

- Kundenspezifische Abmessungen, Materialien und mehr
- Hochpräzise Oberflächenqualität und -ebenheit
- Enge Toleranzen und komplexe Formen
- Skalierbare Produktion – vom Prototypen zur Serie

Erfahren Sie mehr über unsere [kundenspezifischen Fertigungsmöglichkeiten](#) oder senden Sie [hier](#) eine Anfrage.

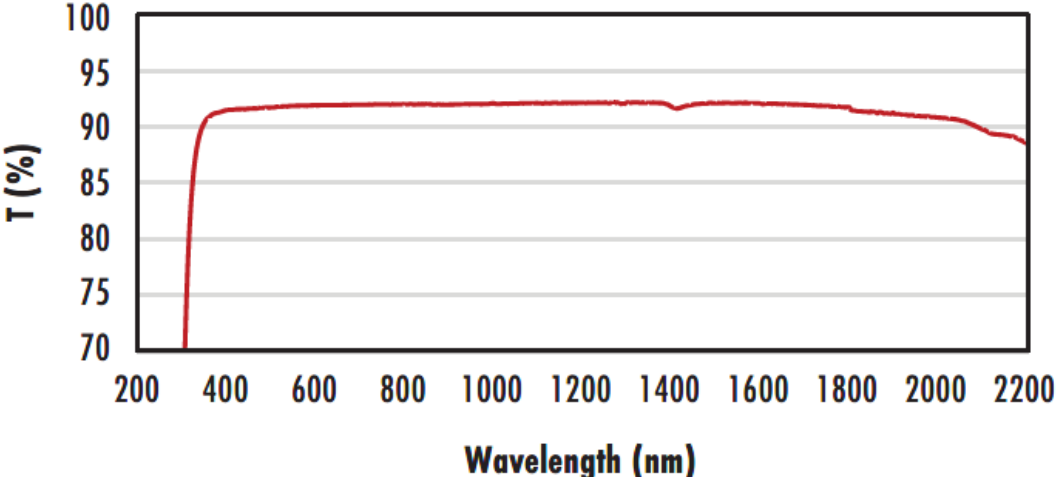
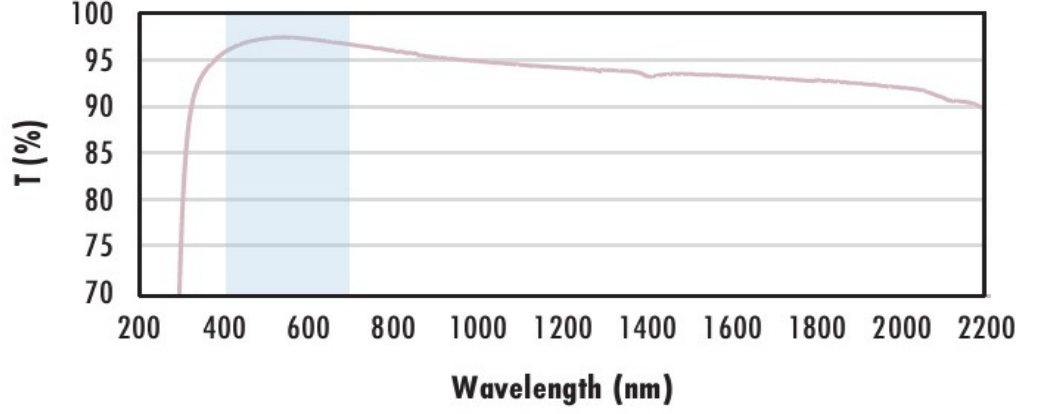
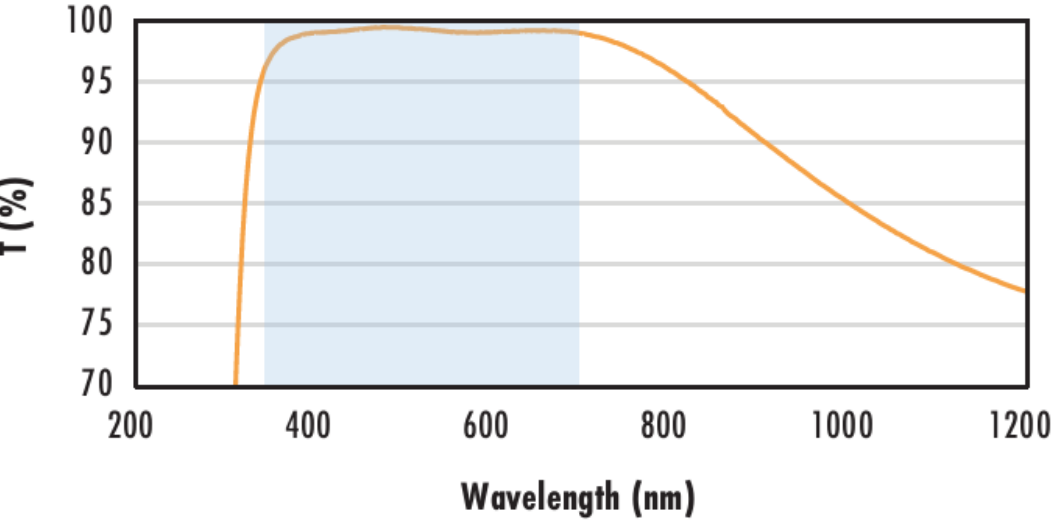
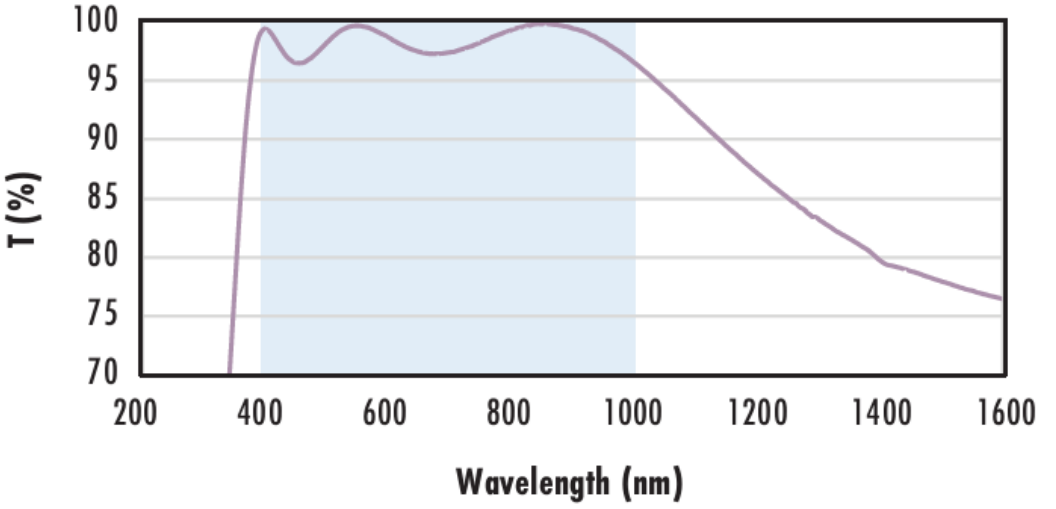
## Produktdetails

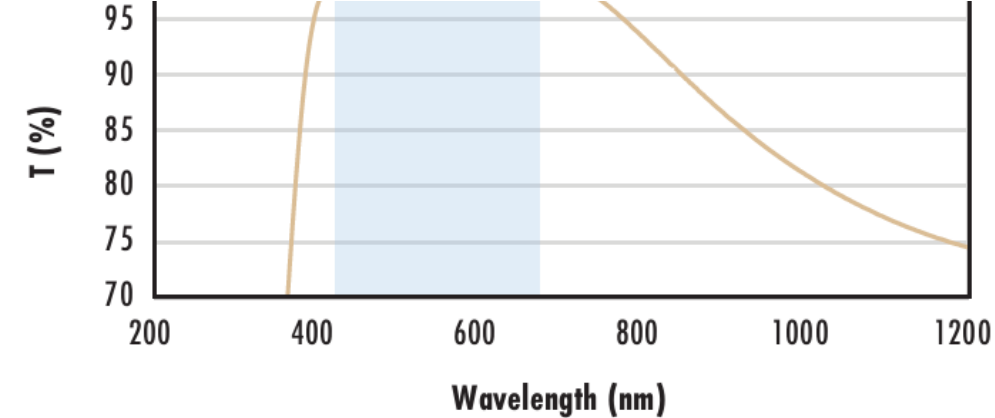
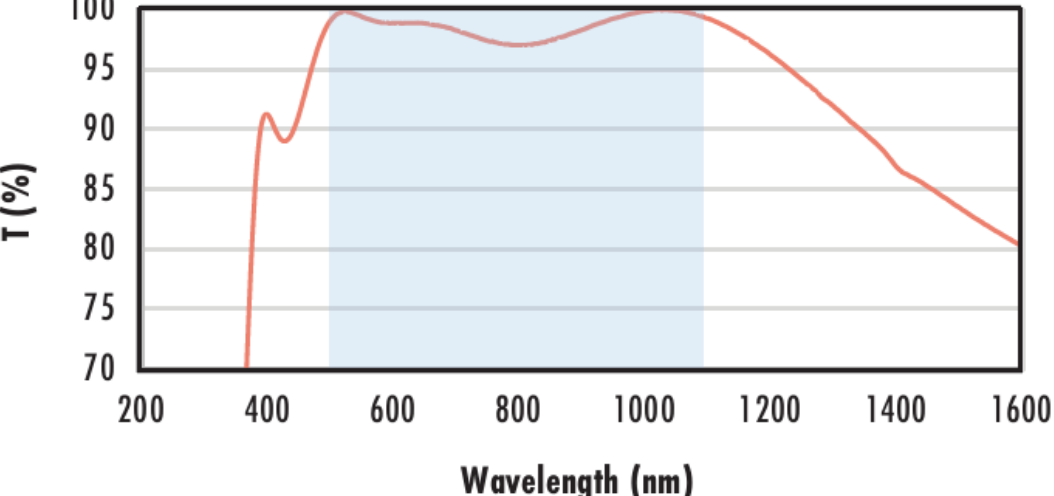
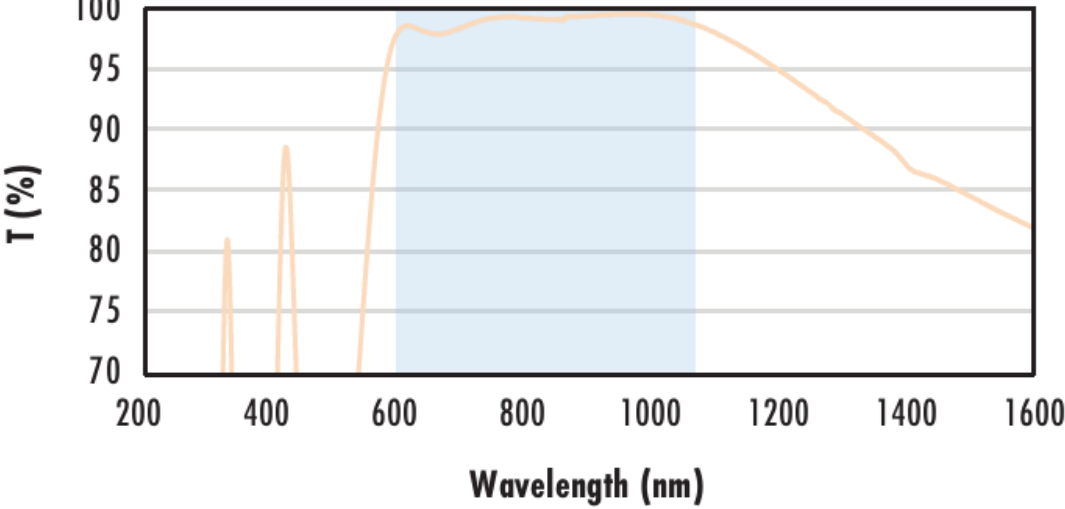
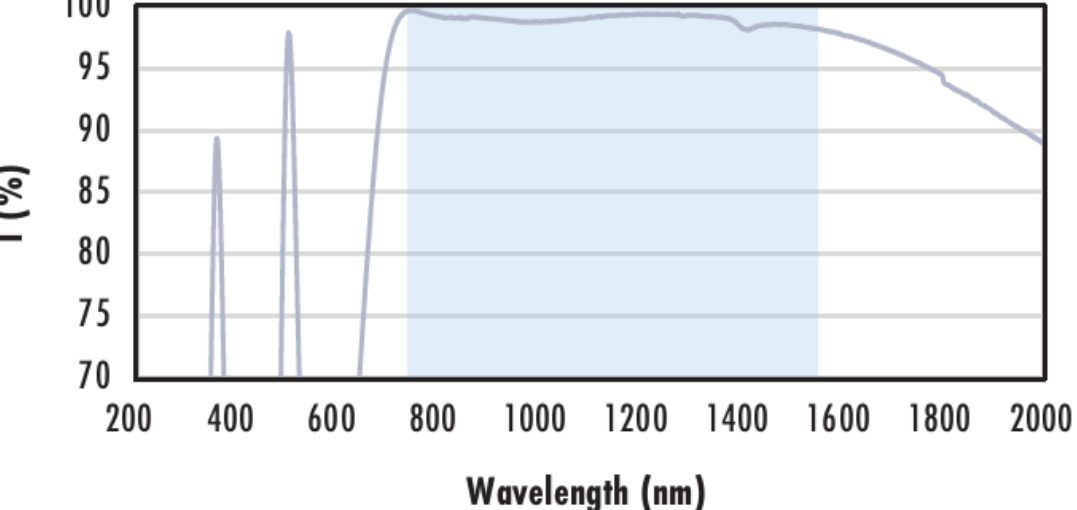
- Dicke 0,2 mm
- Präzises N-BK7-Substrat
- Extrem leicht

TECHSPEC® Ultradünne N-BK7-Fenster sind unsere dünnsten Fenster und haben nur 1/10 der Dicke unserer standardmäßigen N-BK7-Fenster. Durch die extrem geringe Dicke eignen sie sich ideal für Anwendungen mit kritischen Gewichts- und Platzvorgaben. Durch ihre engen Toleranzen weisen sie zudem eine minimale Strahlverzerrung und Streuung auf. Sie werden unbeschichtet oder mit einer Antireflexionsbeschichtung aus MgF<sub>2</sub> geliefert. Wenn Sie kundenspezifische Größen oder besondere Beschichtungen benötigen, wenden Sie sich bitte an unser [Vertriebsbüro](#).

**Hinweis:** Die ultradünnen N-BK7-Fenster sind extrem empfindlich, bitte mit Vorsicht behandeln.

Technische Informationen

|                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N-BK7                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div>Uncoated N-BK7 Typical Transmission</div>                        | <p>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                              |
| <div>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</div>  | <p>Typical transmission of a 3mm thick N-BK7 window with MgF2 (400-700nm) 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 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</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>N-BK7 with VIS-EXT Coating Typical Transmission</div>          | <p>Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) 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\% @ 350 - 700\text{nm}</math></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>N-BK7 with VIS-NIR Coating Typical Transmission</div>          | <p>Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) 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 0.25\% @ 880\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></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>N-BK7 with VIS 0° Coating Typical Transmission</div>           | <p>Typical transmission of a 3mm thick N-BK7 window with VIS 0°</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                              | <p>Typical transmission of a 3mm thick N-BK7 window with VUV (425-675nm) 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 0.4\%</math> @ 425 - 675nm</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>                                                                                                             |
| <p><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></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><math>R_{abs} \leq 0.25\%</math> @ 532nm<br/><math>R_{abs} \leq 0.25\%</math> @ 1064nm<br/><math>R_{avg} \leq 1.0\%</math> @ 500 - 1100nm</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>           |
| <p><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></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><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>                                                                                                       |
| <p><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></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><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> |

Beschichtungskurven

Kompatible Halterungen