

TECHSPEC<sup>®</sup>  $\lambda$ /4-Fenster aus N-BK7, 25 mm Durchmesser, 1 mm Dicke, YAG-BBAR-beschichtet



Produkt **#13-316** **1 In Stock**

-

1

+

€114<sup>.00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-5      | €114,00 stückpreis              |
| Stk. 6-25     | €91,00 stückpreis               |
| Stk. 26-49    | €85,00 stückpreis               |
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! Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

150.00

#Sorting:

Produktdetails

Protective Window

Typ:

Physikalische und mechanische Eigenschaften

22.50

Freie Apertur CA (mm):

|                      |                              |
|----------------------|------------------------------|
| 25.00 +0.0/-0.25     | Durchmesser (mm):            |
| 1.00 ±0.20           | Dicke (mm):                  |
| <1                   | Parallelität (Bogenminuten): |
| Protective as needed | Fase:                        |
| 90                   | Freie Apertur (%):           |
| Fine Ground          | Kanten:                      |
| 0.21                 | Poisson-Zahl:                |
| 82                   | Elastizitätsmodul (GPa):     |
| 610.00               | Knoop-Härte (kg/mm²):        |

Optische Eigenschaften

|                                                                                                              |                                   |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------|
| YAG-BBAR (500-1100nm)                                                                                        | Beschichtung:                     |
| N-BK7                                                                                                        | Substrat: □                       |
| 1.516                                                                                                        | Brechungsindex (n <sub>d</sub> ): |
| 60-40                                                                                                        | Oberflächenqualität:              |
| 64.17                                                                                                        | Abbe-Zahl (v <sub>d</sub> ):      |
| R <sub>abs</sub> <0.25% @ 532nm<br>R <sub>abs</sub> <0.25% @ 1064nm<br>R <sub>avg</sub> <1.0% @ 500 - 1100nm | Beschichtungsspezifikation:       |
| 500 - 1100                                                                                                   | Wellenlängenbereich (nm):         |
| λ/4                                                                                                          | Oberflächenebenheit (P-V):        |
| 5 J/cm² @ 532nm, 10ns                                                                                        | Zerstörschwelle, laut Design:     |

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): |

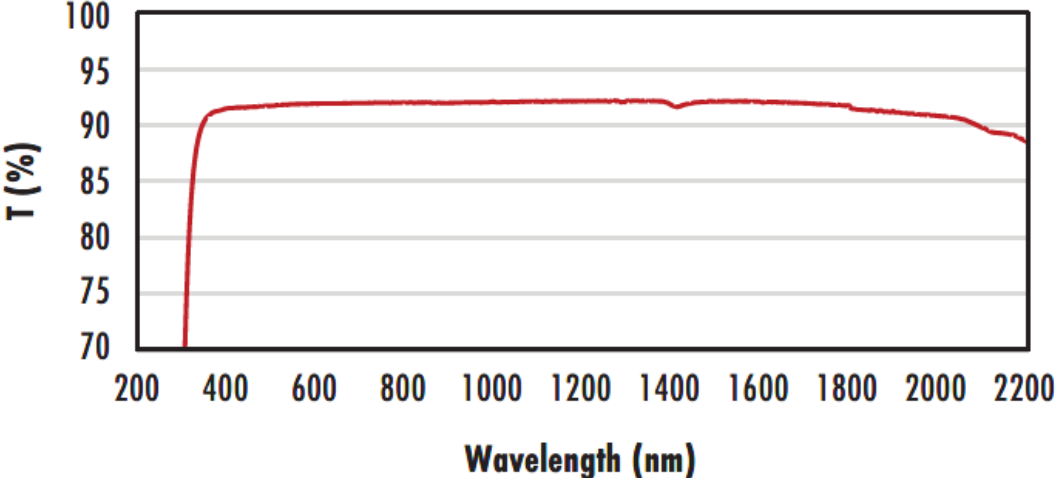
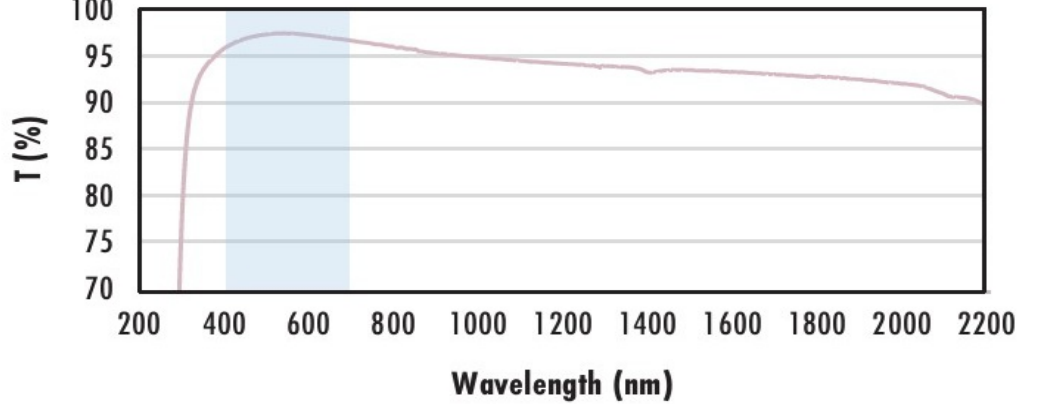
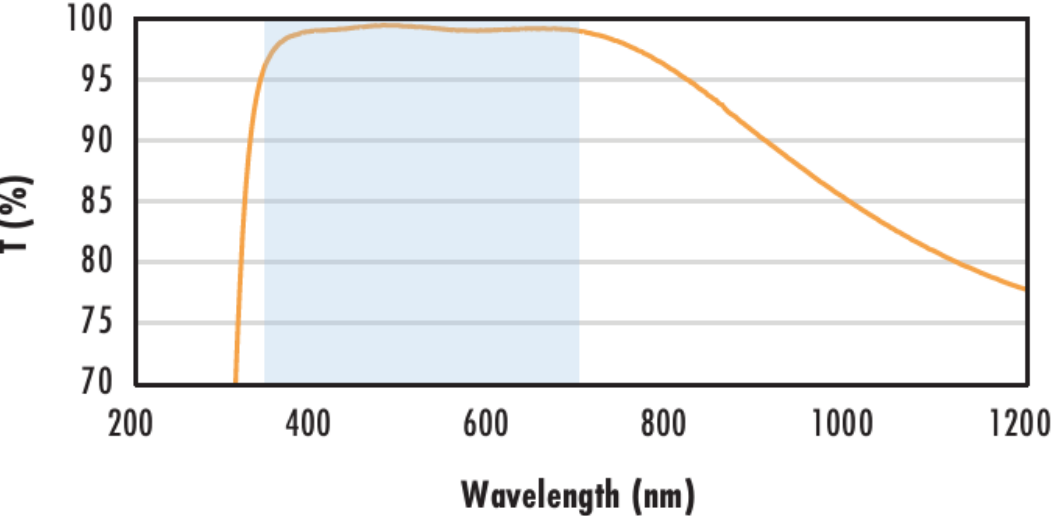
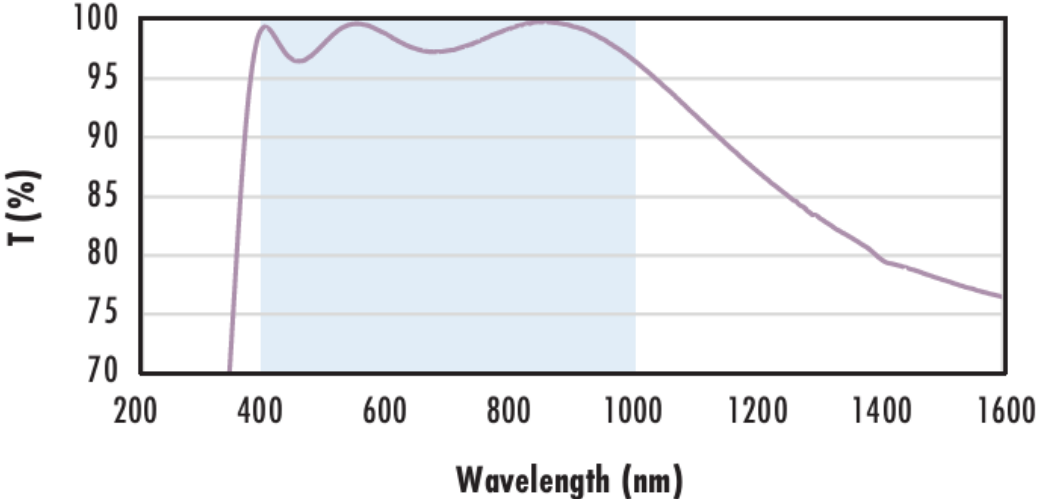
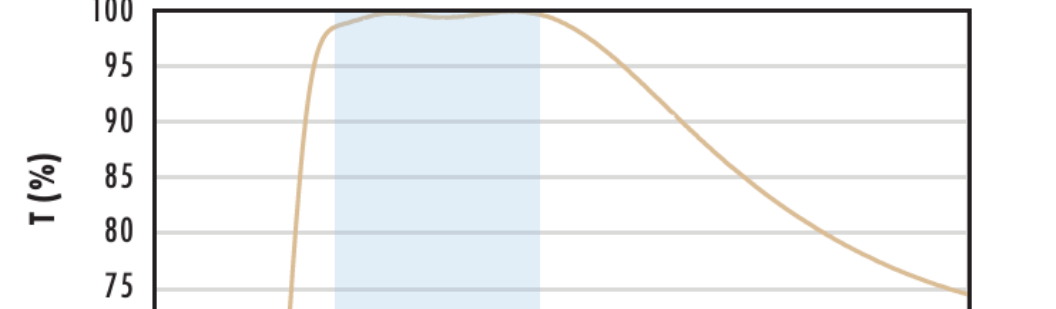
Konformität mit Standards

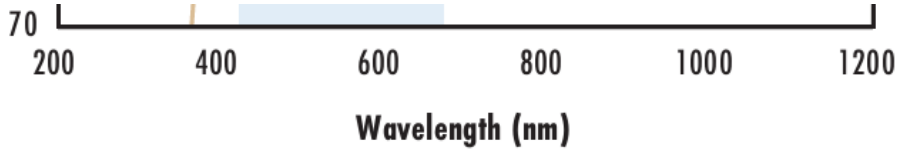
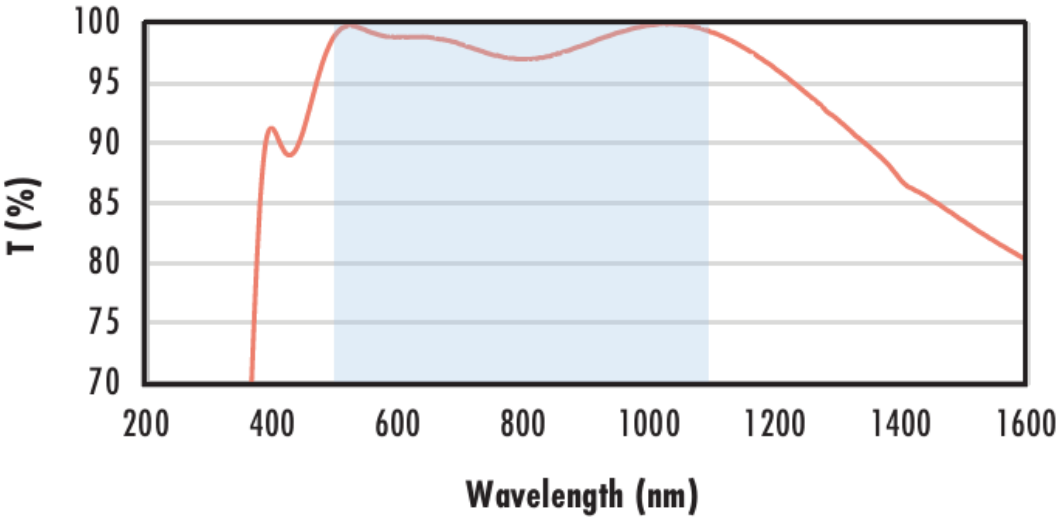
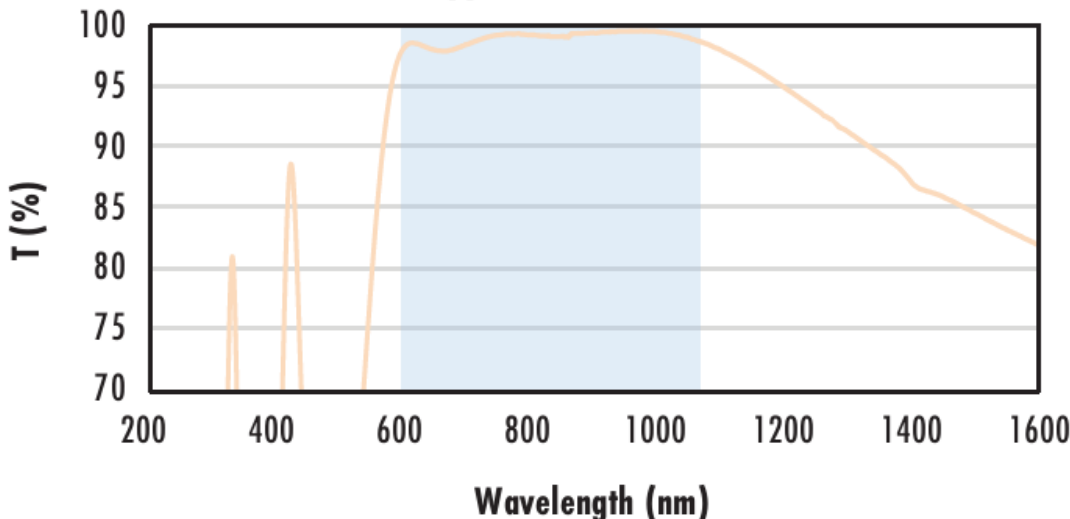
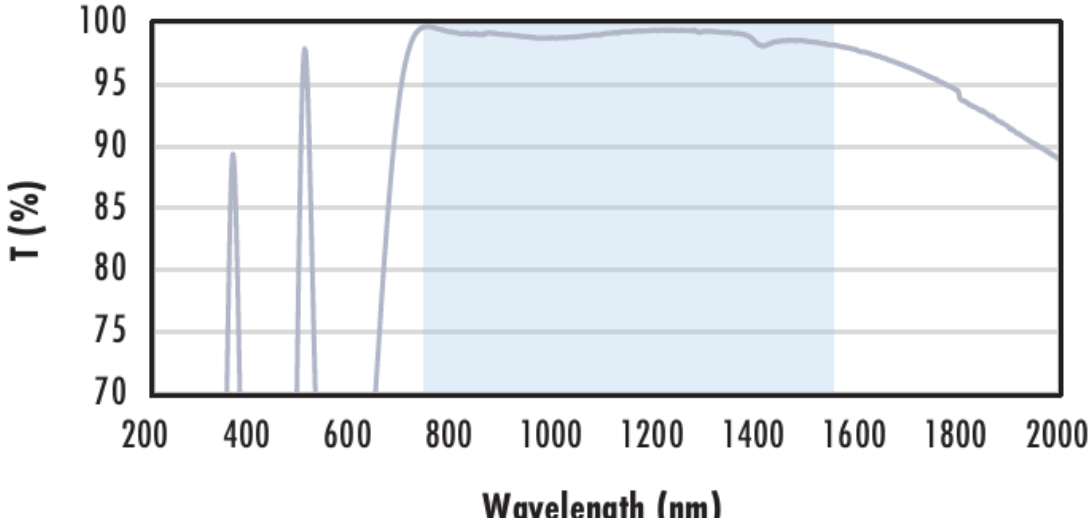
|          |                         |
|----------|-------------------------|
| Konform  | RoHS 2015:              |
| Anzeigen | Konformitätszertifikat: |
| Konform  | Reach 235:              |

Produktdetails

- Runde und rechteckige Fenster von 2 mm bis 200 mm
  - 8 breitbandige Antireflexionsbeschichtungen erhältlich
  - Weltgrößte Auswahl an Standardfenstern aus N-BK7
  - Auch als **ultradünne N-BK7-Fenster** lieferbar
- Die TECHSPEC® präzisen λ/4-Fenster aus N-BK7 eignen sich ideal für Industrielaser und Laser mit niedriger Leistung. Durch die engen Toleranzen ergibt sich eine minimale Streuung und Verzerrung. Die breitbandigen AR-Beschichtungen erweitern den Einsatzbereich dieser Präzisionsfenster auf das sichtbare Spektrum und NIR-Spektrum. Die TECHSPEC® präzisen λ/4-Fenster aus N-BK7 werden rund oder rechteckig mit Größen zwischen 2 mm und 200 mm angeboten.
- Bitte beachten Sie:** Neue Produkte, die zu dieser Produktfamilie hinzugefügt werden, können mit der transmittierten Wellenfrontverzerrung (TWD) und nicht mehr mit der Oberflächenebenheit spezifiziert sein. Weitere Informationen über den Unterschied zwischen den beiden Spezifikationen finden Sie unter [Grundlagen optischer Fenster](#).

Technische Informationen

|                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div data-bbox="262 112 1249 638"><h3>Uncoated N-BK7 Typical Transmission</h3></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 data-bbox="262 703 1249 1193"><h3>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</h3></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 data-bbox="262 1225 1249 1816"><h3>N-BK7 with VIS-EXT Coating Typical Transmission</h3></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 data-bbox="262 1866 1249 2439"><h3>N-BK7 with VIS-NIR Coating Typical Transmission</h3></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 data-bbox="262 2475 1249 2884"><h3>N-BK7 with VIS 0° Coating Typical Transmission</h3></div>        | <p>Typical transmission of a 3mm thick N-BK7 window with VIS 0° (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\% @ 425 - 675\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><div><div>N-BK7 with YAG-BBAR Coating</div><div>Typical Transmission</div></div></div> | <div><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><div><div><math>R_{abs} \leq 0.25\%</math> @ 532nm</div><div><math>R_{abs} \leq 0.25\%</math> @ 1064nm</div><div><math>R_{avg} \leq 1.0\%</math> @ 500 - 1100nm</div></div><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>           |
| <div><div><div>N-BK7 with NIR I Coating</div><div>Typical Transmission</div></div></div>   | <div><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><div><div><math>R_{avg} \leq 0.5\%</math> @ 600 - 1050nm</div></div><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>                                                                                                                   |
| <div><div><div>N-BK7 with NIR II Coating</div><div>Typical Transmission</div></div></div> | <div><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><div><div><math>R_{abs} \leq 1.5\%</math> @ 750 - 800nm</div><div><math>R_{abs} \leq 1.0\%</math> @ 800 - 1550nm</div><div><math>R_{avg} \leq 0.7\%</math> @ 750 - 1550nm</div></div><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> |

## Kundenspezifische Produkte

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- Skalierbare Produktion – vom Prototypen zur Serie

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