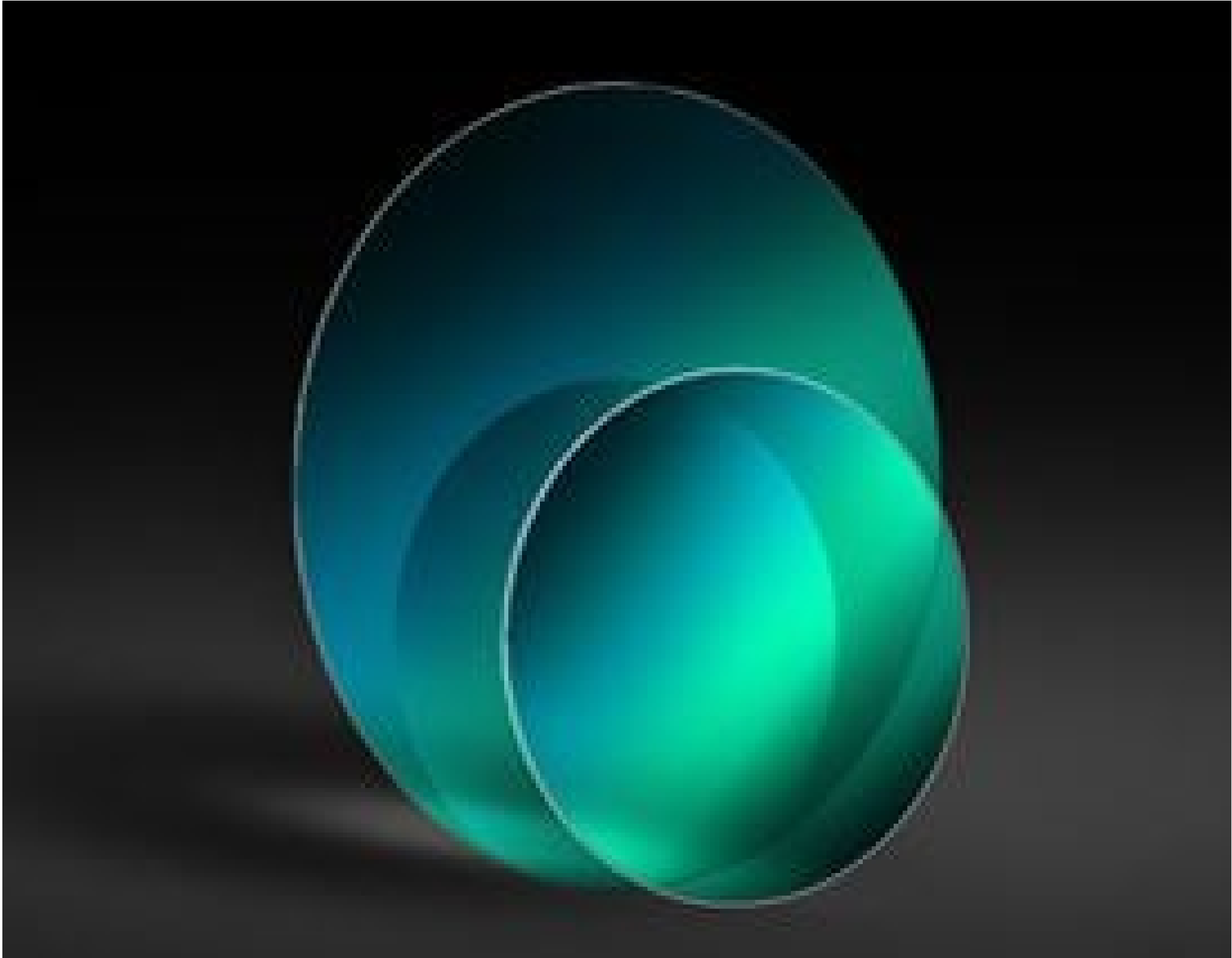


TECHSPEC®

12.5mm Diameter VIS-NIR Coated, Ultra-Thin N-BK7 Window

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Ultra-Thin N-BK7 Windows

Stock **#22-038** **12 In Stock**

-

1

+

£104^{.00}

ADD TO CART

Volume Pricing	
Qty 1-5	£104.00 each
Qty 6-25	£81.60 each
Qty 26-49	£78.80 each
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:

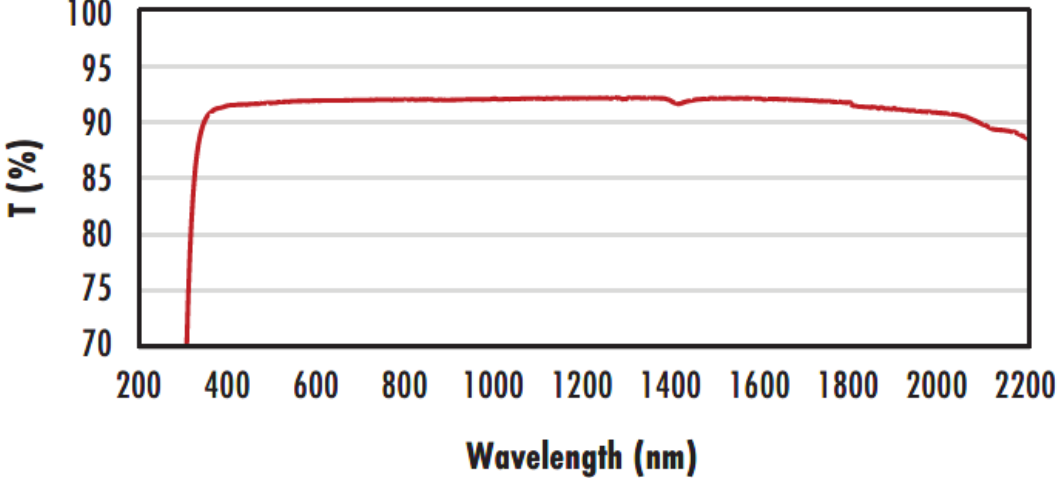
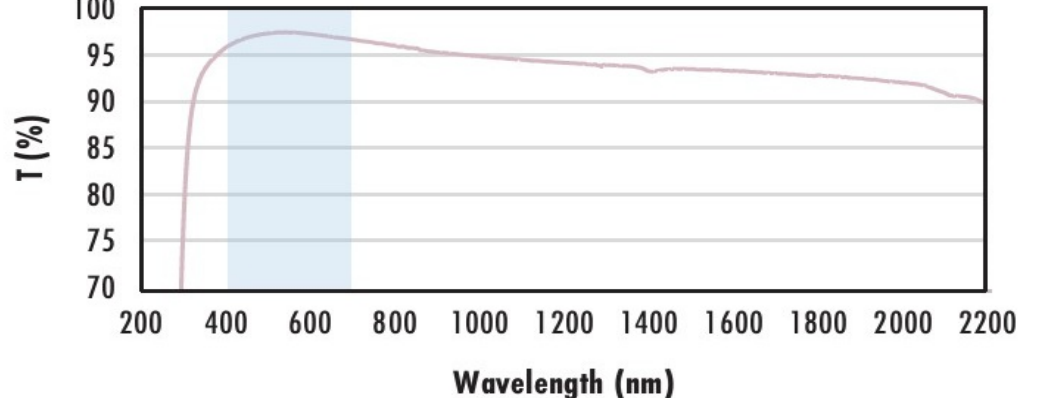
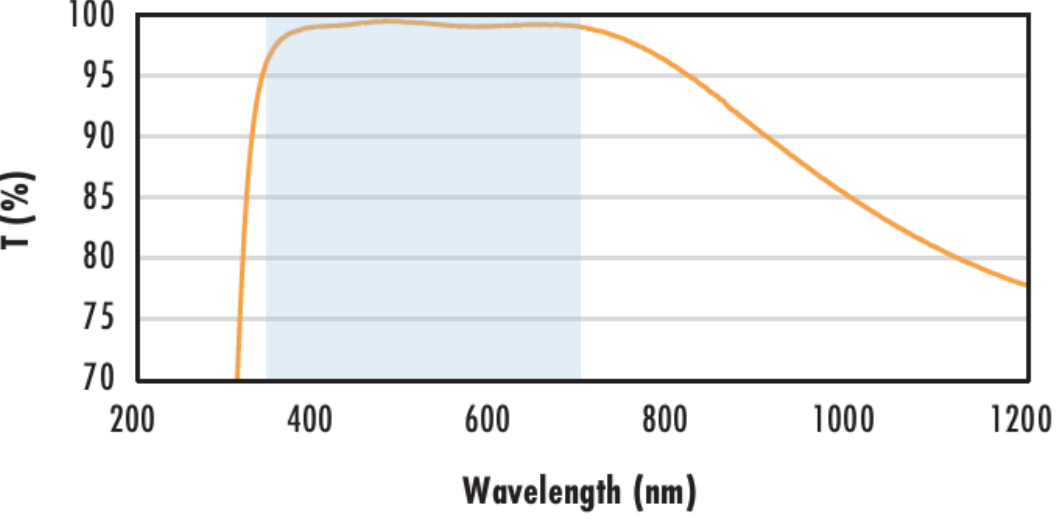
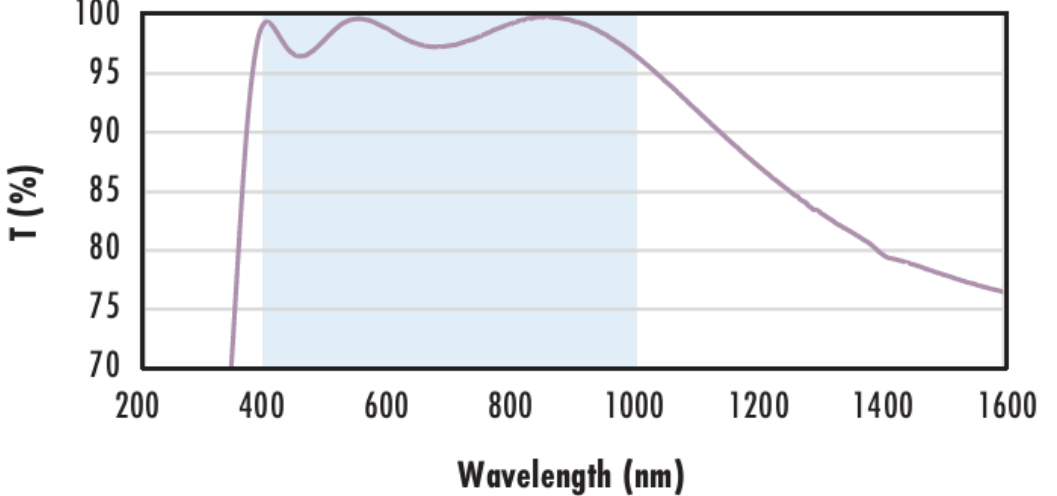
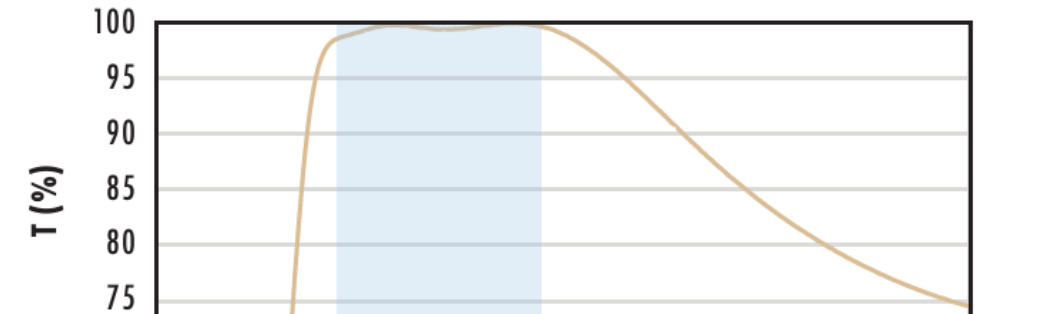
Protective Window

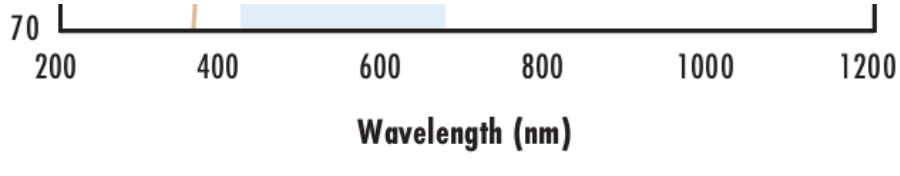
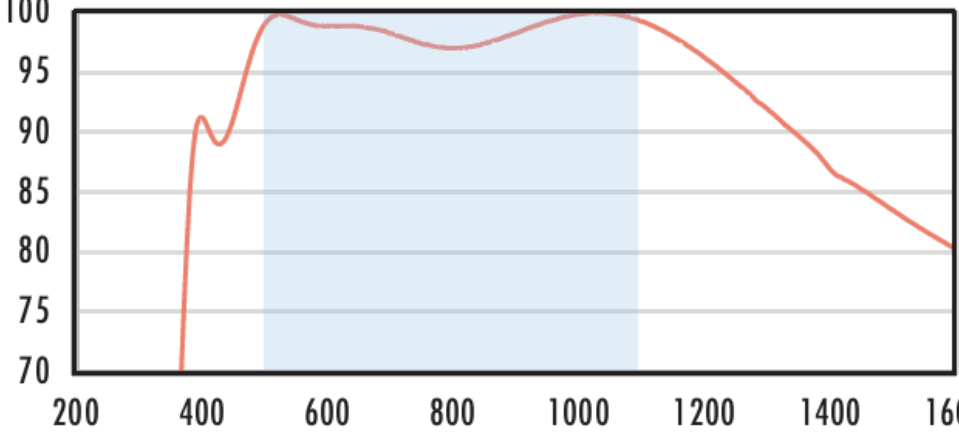
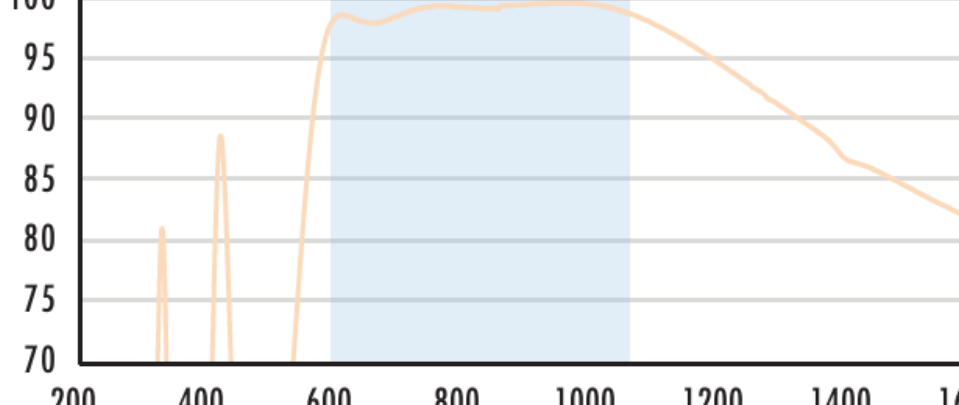
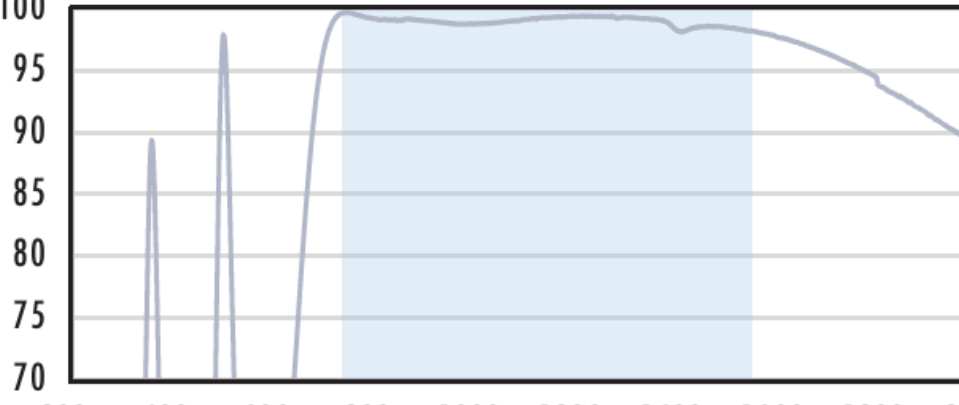
Physical & Mechanical Properties	
Protective as needed	Bevel:
11.25	Clear Aperture CA (mm):
12.50 +0.00/-0.10	Diameter (mm):
0.20 ±0.025	Thickness (mm):
Fine Ground	Edges:
610.00	Knoop Hardness (kg/mm²):
<30	Parallelism (arcsec):
0.21	Poisson's Ratio:
82	Young's Modulus (GPa):
Optical Properties	
64.17	Abbe Number (v _d):
VS-NIR (400-1000nm)	Coating:
R _{abs} ≤0.25% @ 880nm R _{avg} ≤1.25% @ 400 - 870nm R _{avg} ≤1.25% @ 890 - 1000nm	Coating Specification:
1.516	Index of Refraction (n _d):
N-BK7	Substrate:
20-10	Surface Quality:
λ/2	Transmitted Wavefront, P-V:
400 - 1000	Wavelength Range (nm):
5 J/cm² @ 532nm, 10ns	Damage Threshold, By Design: □
Material Properties	
7.1 (-30 to +70°C) 8.3 (+20 to +300°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
2.51	Density (g/cm³):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

PRODUCT DETAILS

- Ultra-Thin 0.20mm Thickness
 - Precision N-BK7 Substrate
 - Extremely Lightweight
- TECHSPEC® Ultra-Thin N-BK7 Windows are our thinnest windows available and are at least 1/10 the thickness of our traditional N-BK7 windows. Their extremely thin designs make them ideal for both weight and size-sensitive applications. Additionally, their high tolerance design yields minimal beam distortion and scatter. TECHSPEC® Ultra-Thin N-BK7 Windows are available uncoated or with a MgF2 anti-reflection coating. For custom sizes or coating options, please contact our [Sales Department](#).
- Note:** The Ultra-Thin N-BK7 Wndows are very fragile. Handle these windows with care.

TECHNICAL INFORMATION

<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>Click Here to Download Data</p>
<div data-bbox="262 706 1249 1193"><h3>N-BK7 with MgF₂ 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>$R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$ (N-BK7)</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p>
<div data-bbox="262 1228 1249 1825"><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>$R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p>
<div data-bbox="262 1869 1249 2442"><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>$R_{abs} \leq 0.25\% @ 880\text{nm}$ $R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$ $R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p>
<div data-bbox="262 2478 1249 2881"><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>$R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p>

	
<div data-bbox="258 261 1249 854"><h3>N-BK7 with YAG-BBAR Coating Typical Transmission</h3></div>	<div data-bbox="1339 394 1839 694"><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>$R_{abs} \leq 0.25\%$ @ 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>Click Here to Download Data</p></div>
<div data-bbox="258 902 1249 1478"><h3>N-BK7 with NIR I Coating Typical Transmission</h3></div>	<div data-bbox="1339 1056 1839 1308"><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>$R_{avg} \leq 0.5\%$ @ 600 - 1050nm</p><p>Data outside this range is not guaranteed and is for reference only.</p><p>Click Here to Download Data</p></div>
<div data-bbox="258 1543 1249 2131"><h3>N-BK7 with NIR II Coating Typical Transmission</h3></div>	<div data-bbox="1339 1665 1839 1988"><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>$R_{abs} \leq 1.5\%$ @ 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>Click Here to Download Data</p></div>

COATING CURVES

CUSTOM

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

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COMPATIBLE MOUNTS

