

TECHSPEC[®] 50mm, VIS-NIR Coated, N-BK7 Wedged Window

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S\$324⁰⁹

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SPECIFICATIONS

General

Wedged Window

Type:

Physical & Mechanical Properties

45.00	Clear Aperture CA (mm):
50.00 +0.0/-0.10	Diameter (mm):
3.00 ±0.20	Thickness (mm):
Fine Ground	Edges:
82	Young's Modulus (GPa):
30' ±10'	Wedge Angle (arcmin):

Optical Properties

MS-NIR (400-1000nm)	Coating:
Rabs ≤0.25% @ 880nm Ravg ≤1.25% @ 400 - 870nm Ravg ≤1.25% @ 890 - 1000nm	Coating Specification:
1.516	Index of Refraction (n _d):
N-BK7	Substrate: ☐
λ/10 over 25mm Aperture	Surface Flatness (P-V):
20-10	Surface Quality:
400 - 1000	Wavelength Range (nm):

Material Properties

7.1 (-30 to +70°C) 8.3 (+20 to +300°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
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Regulatory Compliance

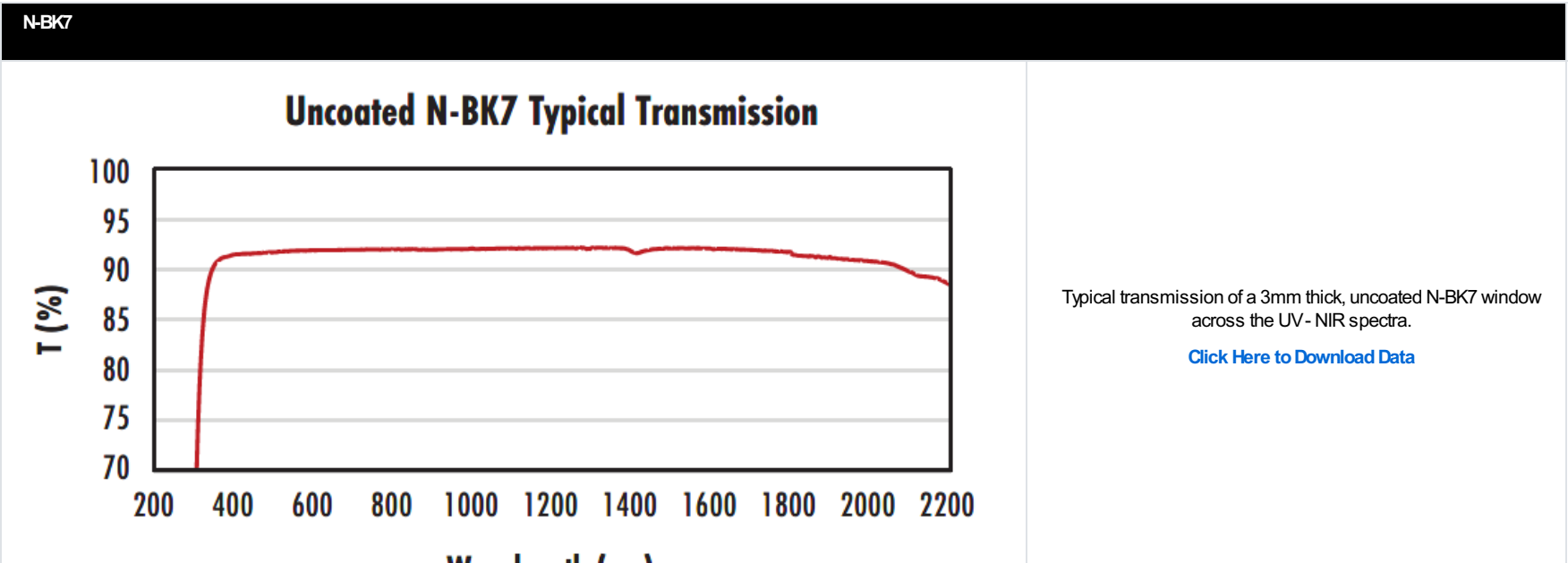
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

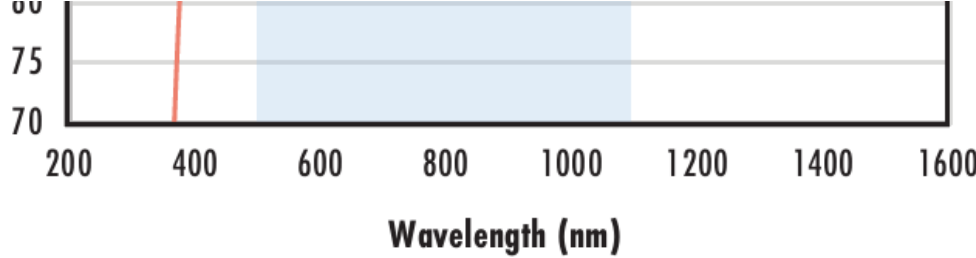
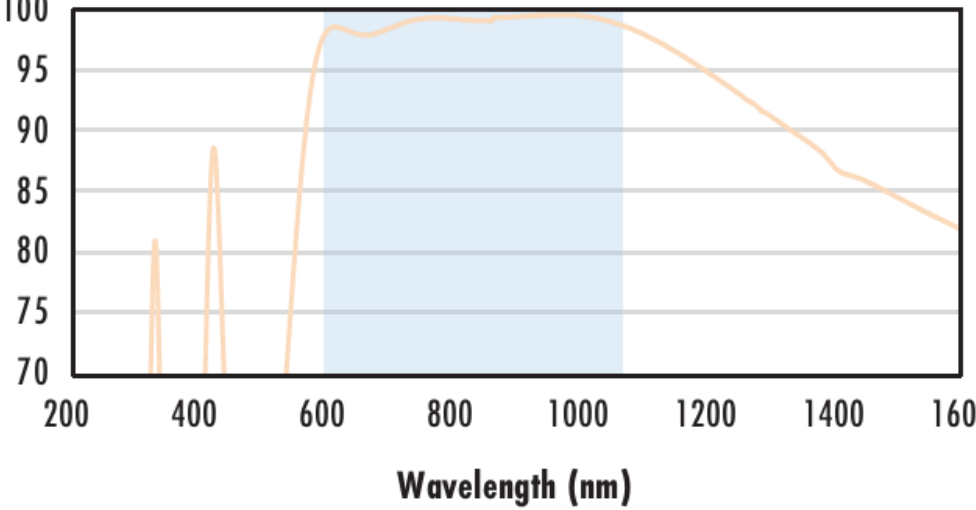
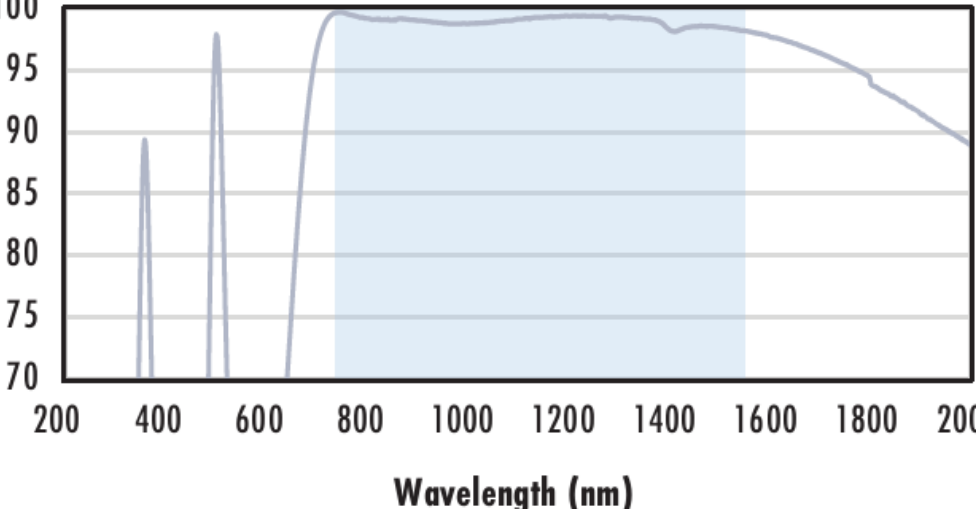
PRODUCT DETAILS

- N-BK7 Substrates with a 30 Arcminute Wedge
- λ/10 Surface Flatness and 20-10 Surface Quality
- Ideal for Eliminating Etalon Effects
- Fused Silica Wedged Windows and N-BK7 Flat Windows Also Available

TECHSPEC® N-BK7 Wedged Windows are available in standard metric sizes with a 30 arcminute wedge. The wedge of these windows eliminate Etalon effects by preventing back surface reflections from traveling along the same optical path as the transmitted beam. In laser cavities, wedged windows help prevent laser instability, mode-hopping, and power spikes caused by these unwanted reflections. TECHSPEC N-BK7 Wedged Windows are often used as a cost-effective alternative to Fused Silica Wedged Windows in applications that do not require UV transmission or where high thermal stability is not required such as with low power visible or NIR lasers. Wedged windows can also be used as beam samplers or beam pick-off optics to monitor laser beam properties such as beam power over time.

TECHNICAL INFORMATION



 80 75 70 200 400 600 800 1000 1200 1400 1600 Wavelength (nm)	Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
N-BK7 with NIR I Coating Typical Transmission  100 95 90 85 80 75 70 200 400 600 800 1000 1200 1400 1600 Wavelength (nm)	Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 0.5\% @ 600 - 1050nm$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
N-BK7 with NIR II Coating Typical Transmission  100 95 90 85 80 75 70 200 400 600 800 1000 1200 1400 1600 1800 2000 Wavelength (nm)	Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 1.5\% @ 750 - 800nm$ $R_{abs} \leq 1.0\% @ 800 - 1550nm$ $R_{avg} \leq 0.7\% @ 750 - 1550nm$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data

COATING CURVES