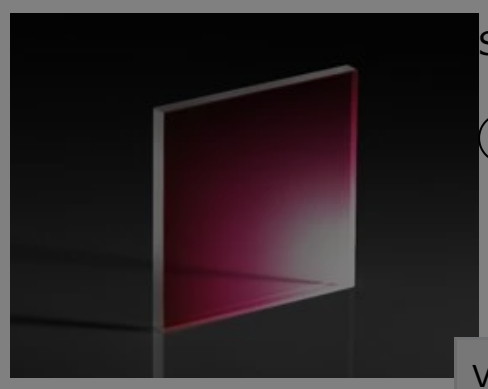
TECHSPEC®

25mm Sq., 1mm … Window



Stock #23-458 2 In Stock

- 1 +

€114,00

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Volume Pricing	
Qty 1-5	€114,00 each
Qty 6-25	€91,00 each
Qty 26-49	€85,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- Curve (xslx):xlsx
- eDrawing:eprt
- EO Spec Sheet
- Download All

General

Type:	Protective Window	**Type of Window:**	Glass

Physical & Mechanical Properties

Clear Aperture CA (mm):	22.50 x 22.50	**Dimensions (mm):**	25.00 x 25.00 +0.00/-0.25
Thickness (mm):	1.00 ±0.20	**Length (mm):**	25.00
Width (mm):	25.00	**Parallelism (arcmin):**	<1
Bevel:	Protective as needed	**Clear Aperture (%):**	90
Edges:	Fine Ground	**Poisson's Ratio:**	0.21
Young's Modulus (GPa):	82	**Knoop Hardness (kg/mm^2):**	610.00

Optical Properties

Coating:	VIS-EXT (350-700nm)	**Substrate:** ⓘ	N-BK7
Index of Refraction (n_d):	1.516	**Surface Quality:**	60-40
Transmitted Wavefront, P-V:	λ/4	**Abbe Number (v_d):**	64.17
Coating Specification:	R_{avg} <0.5% @ 350 - 700nm	**Wavelength Range (nm):**	350 - 700

Damage Threshold, By Design: ⓘ	5 J/cm^2 @ 532nm, 10ns

Material Properties

Density (g/cm^3):	2.51

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

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Regulatory Compliance

RoHS 2015:	**Compliant**	**Certificate of Conformance:**	**View**
Reach 253:	**Compliant**		

Need different specs or modifications?

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

Learn more about our **custom manufacturing capabilities** or submit an inquiry **here.**

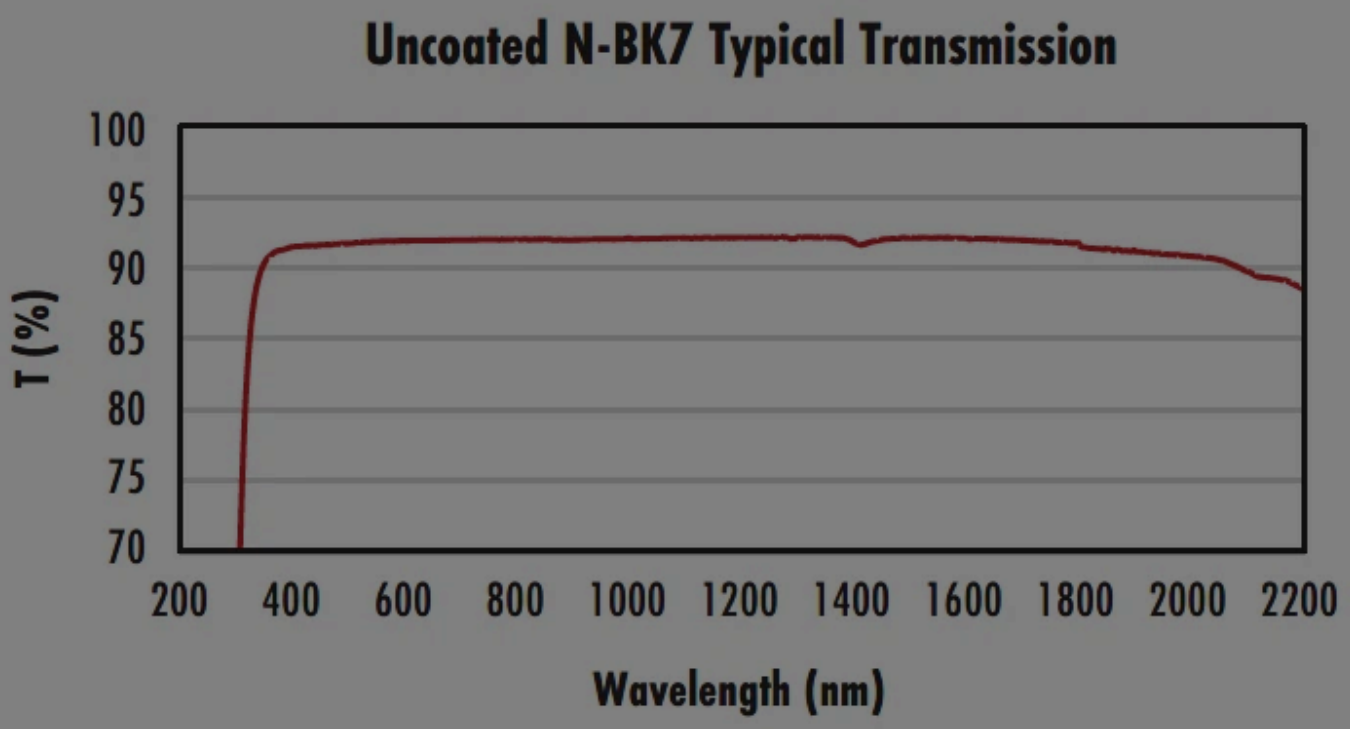
Product Details

- Circular and Rectangular Sizes from 2mm to 200mm
- 8 Broadband Anti-Reflection Coating Options Available
- World's Largest Selection of Standard N-BK7 Windows
- Also Available with **Ultra-Thin N-BK7 Windows**

TECHSPEC® λ/4 N-BK7 Precision Windows are ideally suited for industrial and low-power laser applications. The high tolerance design yields minimal beam distortion and scatter. Broadband coating options extend the range of these precision windows through the visible and near-infrared spectra. TECHSPEC® λ/4 N-BK7 Precision Windows are offered in circular and rectangular sizes ranging from 2mm to 200mm.

Note: New additions to this product family may be specified with a transmitted wavefront distortion (TWD) specification instead of a surface flatness. For more information on the difference between these two specifications, see our application note on **Understanding Optical Windows**.

Technical Information



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

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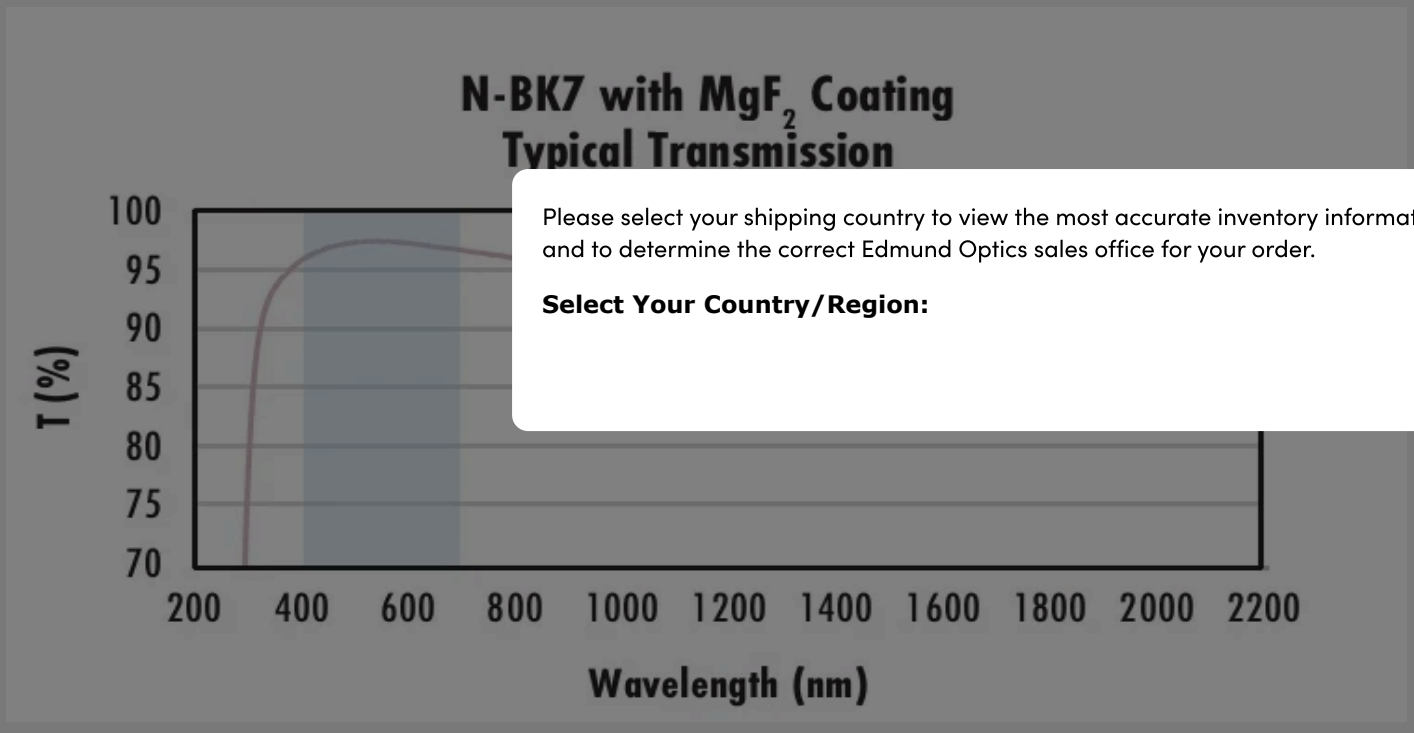

ical transmission of a 3mm thick N-BK7 window w
MgF2 (400-700nm) coating at 0° AOI.

he blue shaded region indicates the coating desig
wavelengh range, with the following specification:

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

Data outside this range is not guaranteed and is fo
reference only.

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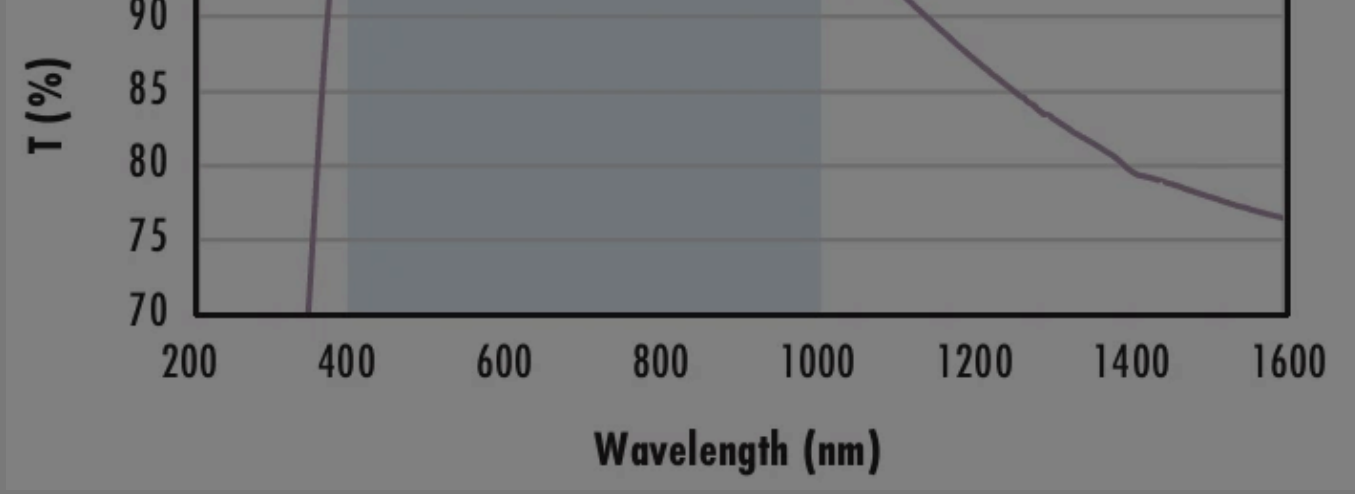

Typical transmission of a 3mm thick N-BK7 window w
VIS-EXT (350-700nm) coating at 0° AOI.

The blue shaded region indicates the coating desig
wavelengh range, with the following specification:

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

Data outside this range is not guaranteed and is fo
reference only.

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Typical transmission of a 3mm thick N-BK7 window w
VIS-NIR (400-1000nm) coating at 0° AOI.

The blue shaded region indicates the coating desig
wavelengh range, with the following specification:

$R_{abs} \leq 0.25\%$ @ 880nm
$R_{avg} \leq 1.25\%$ @ 400 - 870nm
$R_{avg} \leq 1.25\%$ @ 890 - 1000nm

Data outside this range is not guaranteed and is fo
reference only.

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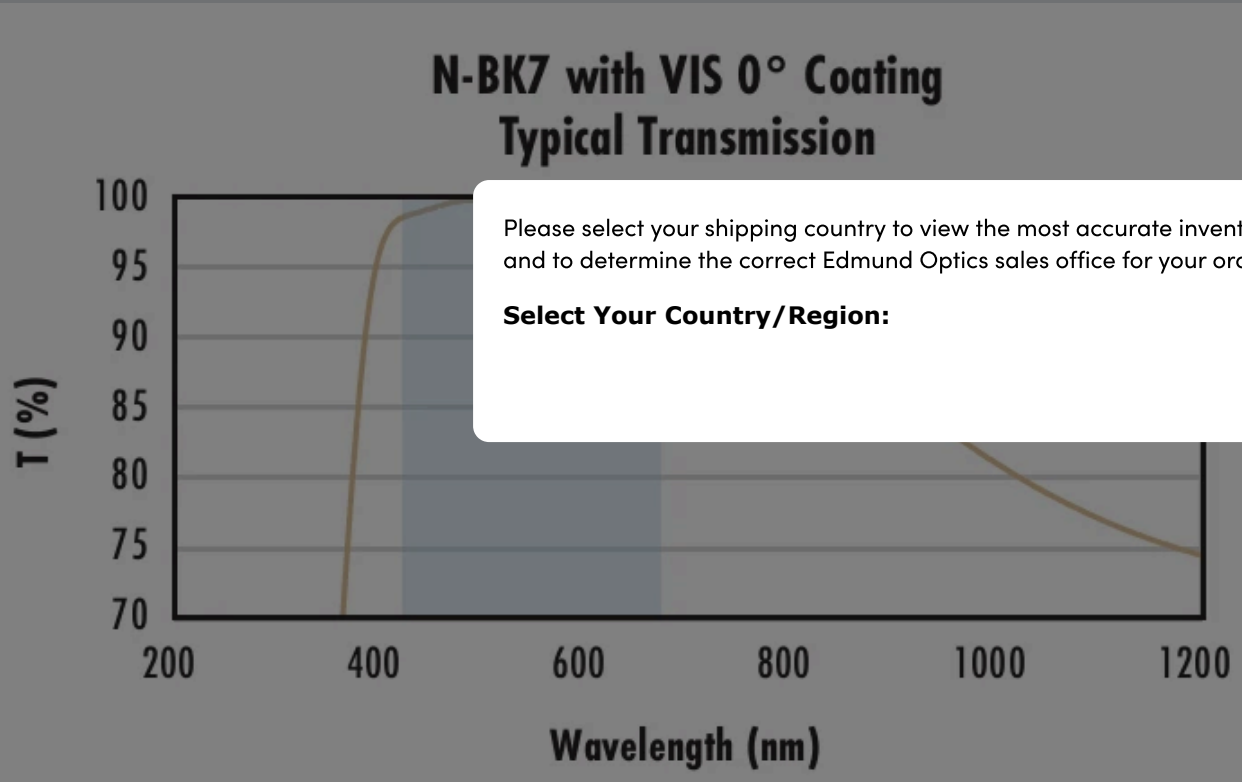

al transmission of a 3mm thick N-BK7 window wit
0° (425-675nm) coating at 0° AOI.

he blue shaded region indicates the coating desig
wavelengh range, with the following specification:

$R_{avg} \leq 0.4\%$ @ 425 - 675nm

Data outside this range is not guaranteed and is fo
reference only.

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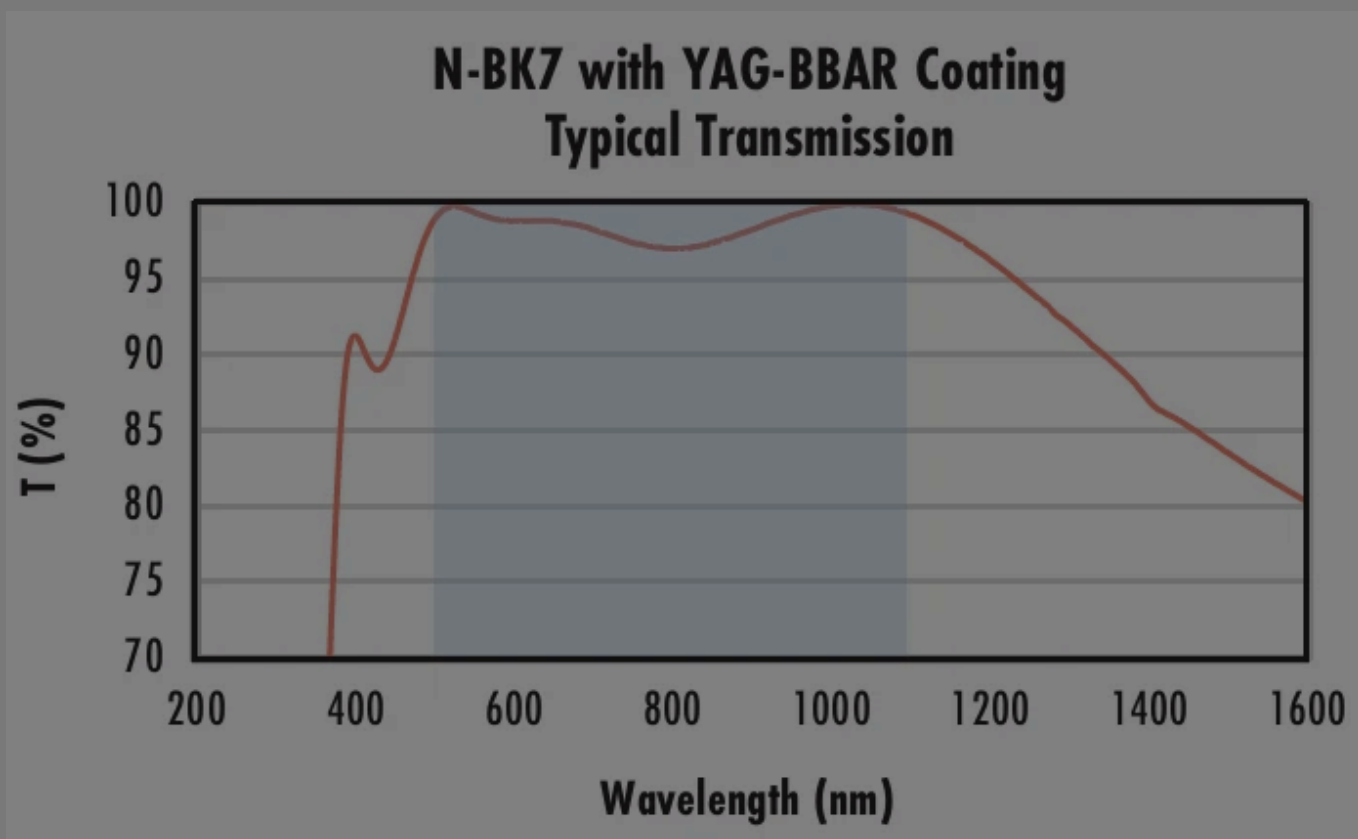

Typical transmission of a 3mm thick N-BK7 window w
YAG-BBAR (500-1100nm) coating at 0° AOI.

The blue shaded region indicates the coating desig
wavelengh range, with the following specification:

$R_{abs} \leq 0.25\%$ @ 532nm
$R_{abs} \leq 0.25\%$ @ 1064nm
$R_{avg} \leq 1.0\%$ @ 500 - 1100nm

Data outside this range is not guaranteed and is fo
reference only.

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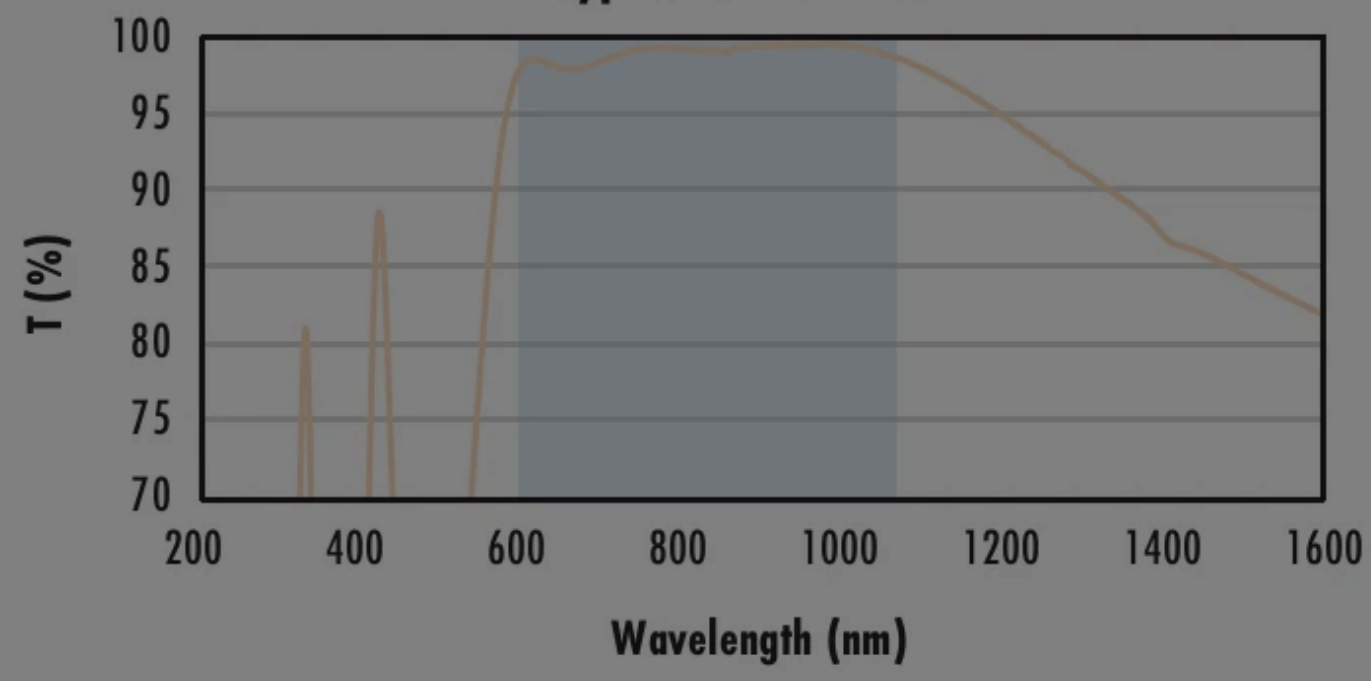

Typical transmission of a 3mm thick N-BK7 window witl
I (600 - 1050nm) coating at 0° AOI.

The blue shaded region indicates the coating desig
wavelengh range, with the following specification:

$R_{avg} \leq 0.5\%$ @ 600 - 1050nm

Data outside this range is not guaranteed and is fo
reference only.

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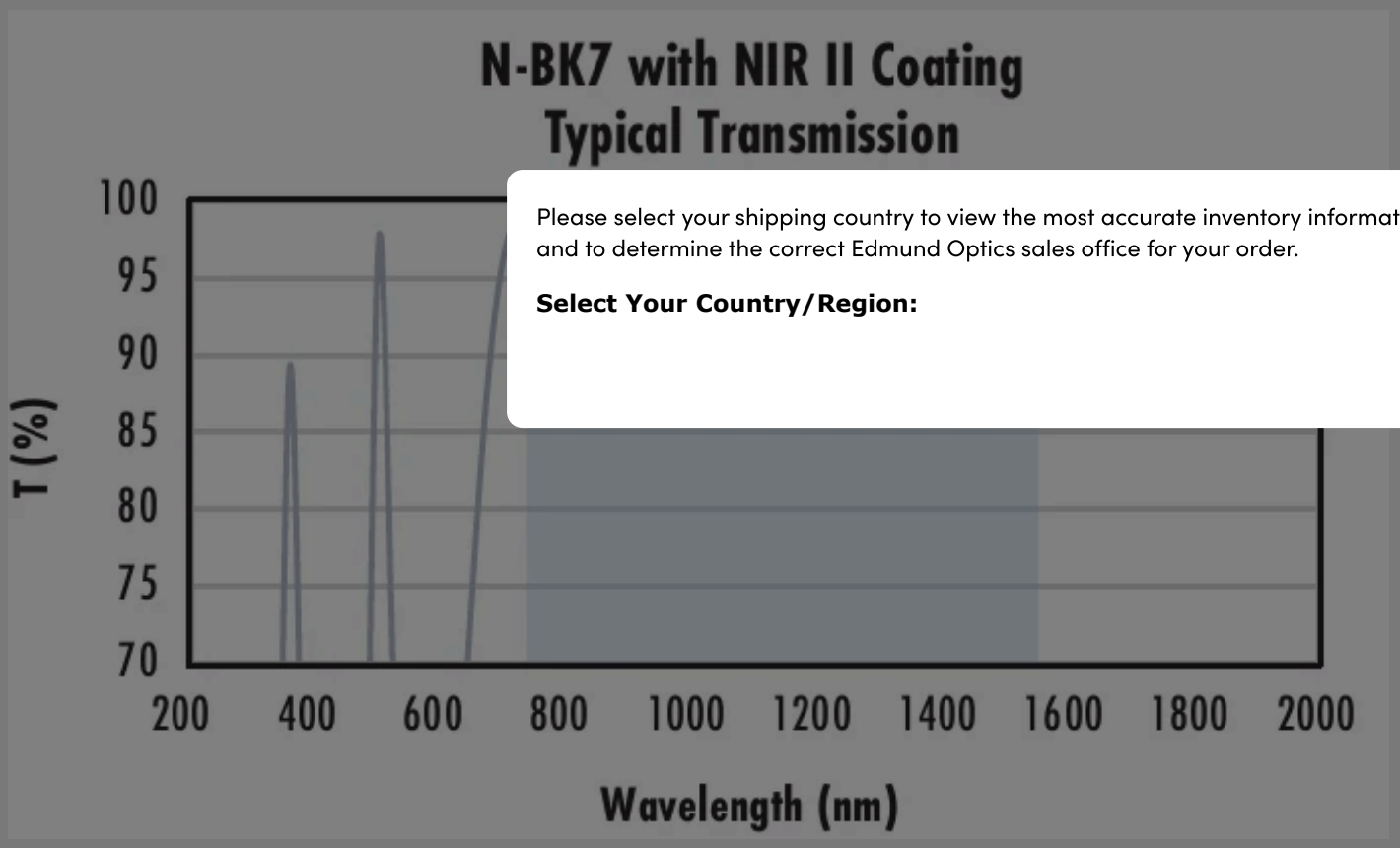

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

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al transmission of a 3mm thick N-BK7 window witl
II (750 - 1550nm) coating at 0° AOI.

he blue shaded region indicates the coating desig
wavelengh 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 fo
reference only.

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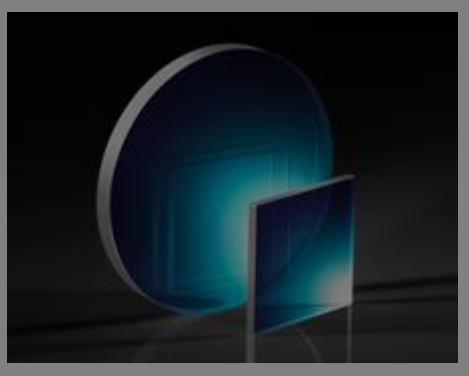
Related Products

Cage System Optical Lens Mounts

C, S, and T-Mount Circular Optic Mounts

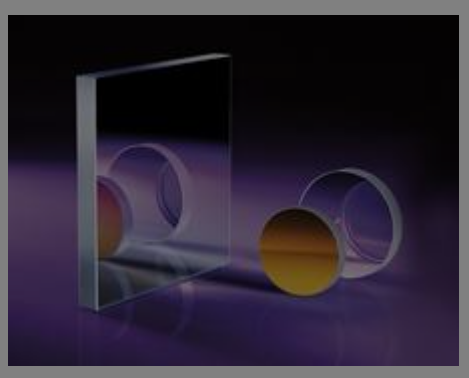
PUROSOL™ Optical Cleaner



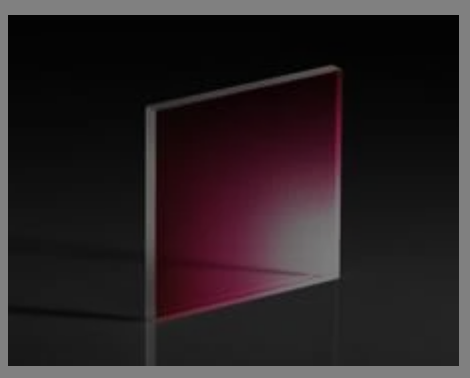
λ/10 UV Fused Silica Windows

Frequently Purchased Together

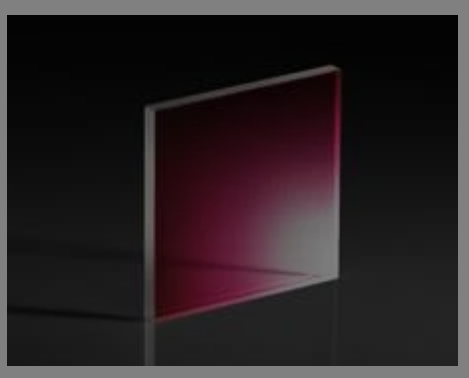
#62-983 - 500nm 25mm Dia., High Performance Longpass Filter
€275,00
Qty



#88-538 - 30 x 30mm Protected Silver, λ/4 Mirror
€112,00
Qty



#23-370 - 25mm Sq., 1mm Thick, MgF_2 Coated λ/4 N-BK7 Window
€96,00
Qty



#23-392 - 25mm Sq., 1mm Thick, VIS 0° Coated λ/4 N-BK7 Window
€110,00
Qty

Resources

Media Type

- [ ] Application Note
- [ ] Technical Tool

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

TECHNICAL TOOL
Beam Displacement Calculator

Video

Glossary

FAQ

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APPLICATION NOTE

Optical Glass

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