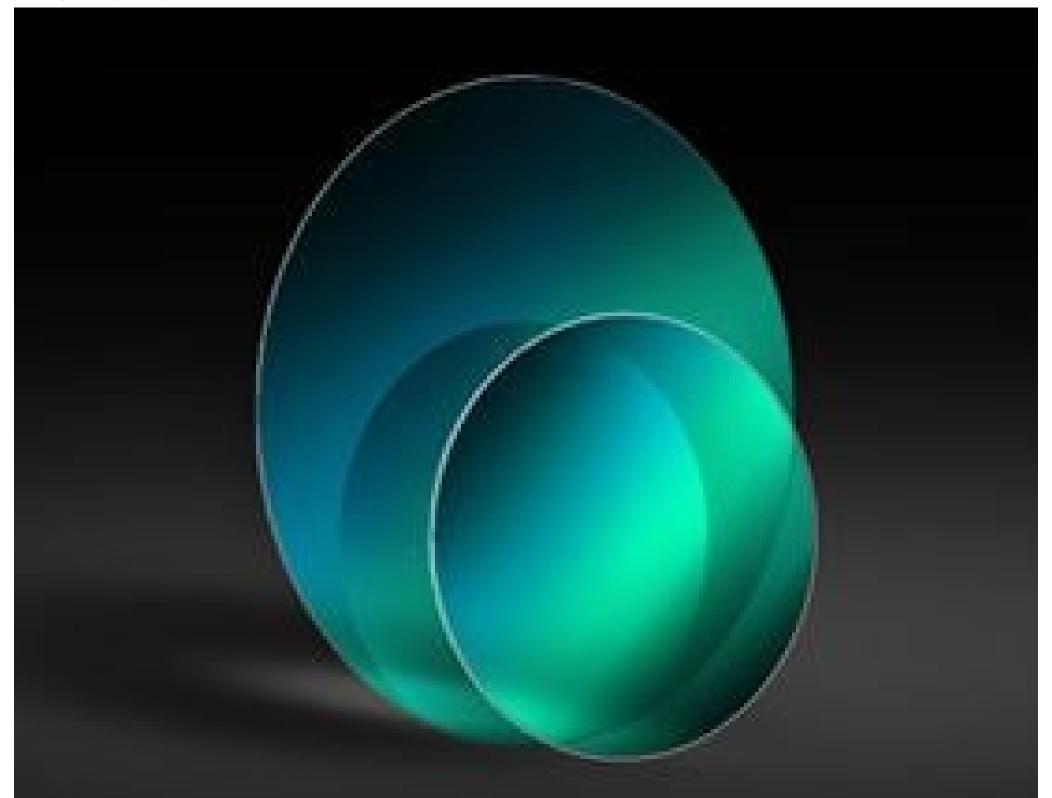
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# **TECHSPEC** 10mm Diameter NIR I, Ultra-Thin N-BK7 Window

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Ultra-Thin N-BK7 Windows

Stock **#22-045** 34days

• 1 + £96<sup>.90</sup>

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Qty 6+	
£75.65	
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## SPECIFICATIONS

#### General

**Type:** Protective Window

#### **Physical & Mechanical Properties**

Bevel:

Protective as needed

**Clear Aperture CA (mm):** 9.00

**Diameter (mm):** 10.00 +0.00/-0.10

Thickness (mm): 0.20 ±0.025

Edges: Fine Ground

Knoop Hardness (kg/mm<sup>2</sup>): 610

Parallelism (arcsec): <30

Poisson's Ratio: 0.206

Young's Modulus (GPa): 82

#### **Optical Properties**

Abbe Number (v<sub>d</sub>): 64.17

Coating: NIR I (600-1050nm)

Coating Specification: R<sub>avg</sub> ≤0.5% @ 600 - 1050nm

Index of Refraction (n<sub>d</sub>): 1.516

Substrate: <u>N-BK7</u>

Surface Quality: 20-10

Transmitted Wavefront, P-V:  $\mathcal{N}_2$ 

Wavelength Range (nm): 600 - 1050

Damage Threshold, By Design: 7 J/cm<sup>2</sup> @ 1064nm, 10ns

#### **Material Properties**

**Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):** 7.1 (-30 to +70°C) 8.3 (+20 to +300°C)

Density (g/cm<sup>3</sup>): 2.51

#### **Regulatory Compliance**

RoHS 2015: Compliant

Certificate of Conformance: View

Reach 235: Compliant

**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 sizesensitive 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 <u>Sales Department</u>.

Note: The Ultra-Thin N-BK7 Windows are very fragile. Handle these windows with care.

### **TECHNICAL INFORMATION**

## **Uncoated N-BK7 Typical Transmission**

