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**TECHSPEC® 7mm, Aluminum, High Tolerance N-BK7 Right Angle Prism**



N-BK7 High Tolerance Right Angle Prisms

Stock **#32-542** **2 In Stock**

⊖ 1 ⊕ **\$155<sup>00</sup>**

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Volume Pricing	
Qty 1-5	<b>\$155.40</b> each
Qty 6-25	<b>\$123.90</b> each
Qty 26-49	<b>\$116.90</b> each
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**General**

Right Angle Prism **Type:**

**Physical & Mechanical Properties**

**Dimensional Tolerance (mm):**  
+0/-0.1

**Bevel:**  
Protective as needed

Length of Hypotenuse (mm):  
9.90

Length of Legs (mm):  
7.00

## Optical Properties

Angle Tolerance (arcsec):  
±15

Coating:  
Aluminum with protective overcoat

Substrate:   
N-BK7

Surface Quality:  
40-20

Image Orientation:  
Left-Handed

Coating Specification:  
Reflective Surfaces:  $R_{avg} > 85\%$  FROM 400-700nm, @  
45° AOI

Ray Deviation (°):  
90

Wavelength Range (nm):  
400 - 2000

Damage Threshold, By Design:   
Hypotenuse:  $0.3 \text{ J/cm}^2$  @ 532nm & 1064nm, 10ns

Power (fringes) @ 632.8nm:  
1.25

Irregularity (fringes) @ 632.8nm:  
0.25

## Regulatory Compliance

RoHS 2015:  
Compliant

Certificate of Conformance:  
View

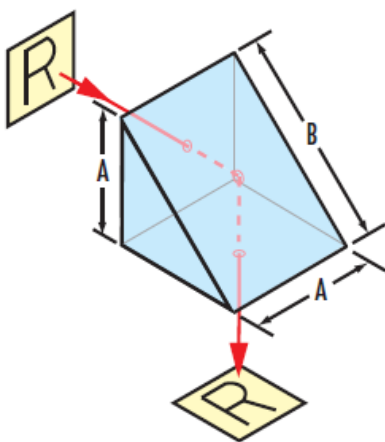
Reach 235:  
Compliant

## Product Details

- Ray Deviation of 90°
- Left Handed Image
- Low Arcsecond Angle Tolerance
- Additional [Right Angle Prism](#) Options Available

TECHSPEC® High Tolerance N-BK7 Right Angle Prisms are generally used to bend image paths or redirect light at 90°. This process produces a left-handed image, depending on the prism's orientation, the image may be inverted or reverted. Right angle prisms can also be combined for image/beam displacement. TECHSPEC® High Tolerance N-BK7 Right Angle Prisms feature low arcsecond angle tolerance and are made from precision N-BK7 for use in a variety of visible light applications. These prisms are available uncoated, with a protective aluminum overcoat, or VIS° & aluminized.

## Technical Information





Right Angle Prism Ray Path



Right Angle Prism Ray Path



Right Angle Prism Tunnel Diagram



Right Angle Prism Tunnel Diagram