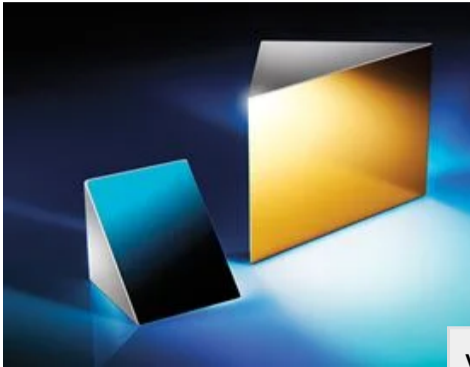


TECHSPEC®

40mm Enhanced Aluminum, N-BK7 Right Angle Prism Mirrors (Hypotenuse Coated)



Stock #45-688 **10 In Stock**

1 C\$319^{.20}

ADD TO CART

Volume Pricing	
Qty 1-5	C\$319.20 each
Qty 6-25	C\$254.80 each
Qty 26-49	C\$239.40 each
Need More?	Request Quote

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	Download All

General

Type: Right Angle Mirror

Physical & Mechanical Properties

Bevel: Protective as needed

Clear Aperture CA (mm): 50.91 x 36.00

Dimensional Tolerance (mm): ±0.1

Length of Hypotenuse (mm): 56.60

Length of Legs (mm): 40.00

Optical Properties

Wavelength Range (µm): 0.45 - 0.65

Coating Type: Metal

Coating: Enhanced Aluminum (450-650nm)

Wavelength Range (nm): 450 - 650

Substrate: [ⓘ](#) **N-BK7**

Angle Tolerance (arcmin): ±2

Coating Specification: R_{avg} >95% @ 450 - 650nm

Surface Quality: 60-40

Damage Threshold, Reference: 0.2 J/cm² @ 532nm, 10ns [ⓘ](#)

Power (fringes) @ 632.8nm: 1.25

Irregularity (fringes) @ 632.8nm: 0.50

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

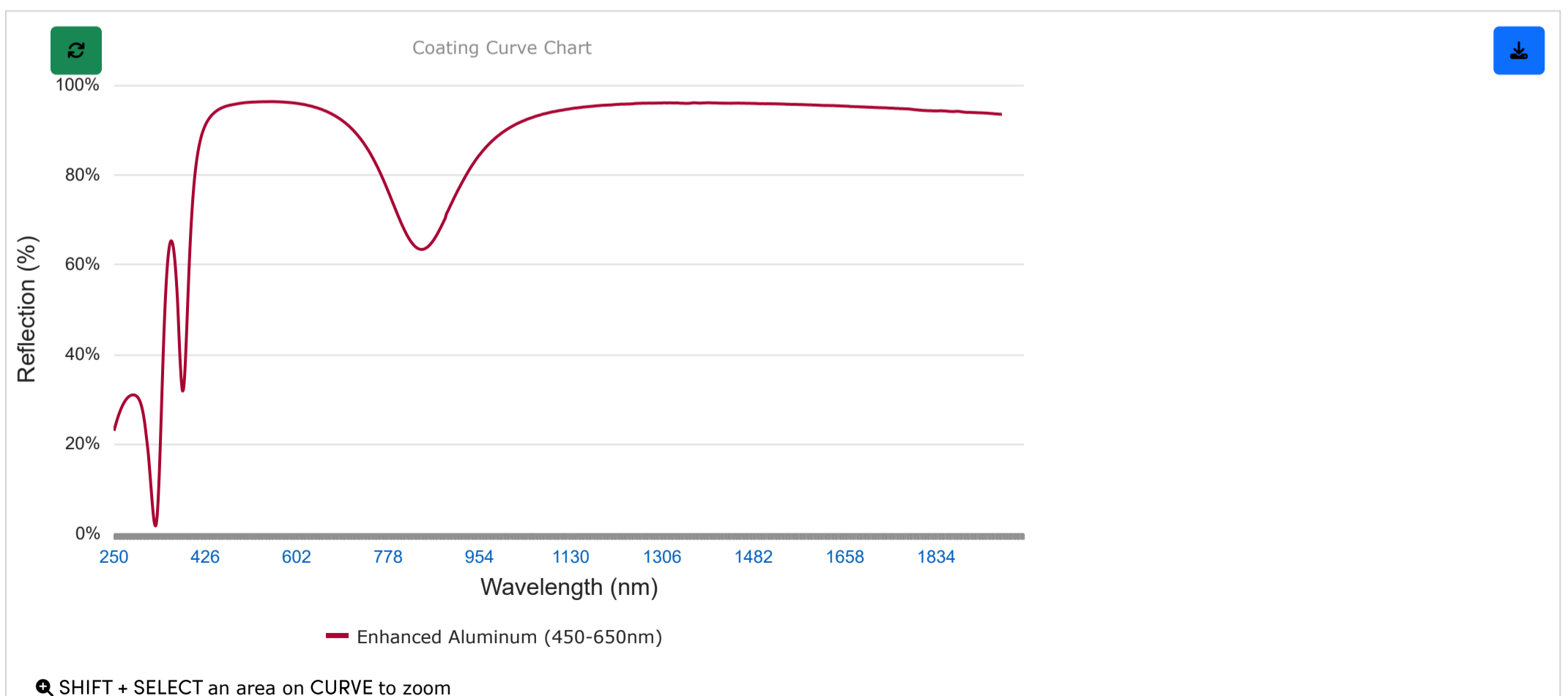
- Reflects Light at 90°
- Ideal for System Alignment
- Enhanced Aluminum, Protected Gold, and Protected Silver Coatings

TECHSPEC® Right Angle Prism Mirrors (Hypotenuse Coated) are available with enhanced aluminum, protected gold, or protected silver coatings. These coatings allow for improved handling of the component, increased durability of the metal coating, and protection from oxidation with little impact on the performance of the metal coating. The mirrors are designed with an N-BK7 substrate. Right angle mirrors reflect incident light at 90°, are easily mounted, and are crucial in many optical systems. TECHSPEC® Right Angle Prism Mirrors (Hypotenuse Coated) are ideal for applications requiring precision alignment and high performance.

Technical Information

Coating Curves

Enhanced Aluminum (450-650nm)



Please note that coating performance outside each product's specified design range is theoretical and may vary.

Related Products



PUROSOL™ Optical Cleaner



Broadband Dielectric Coated Right Angle Mirrors (Hypotenuse Coated)

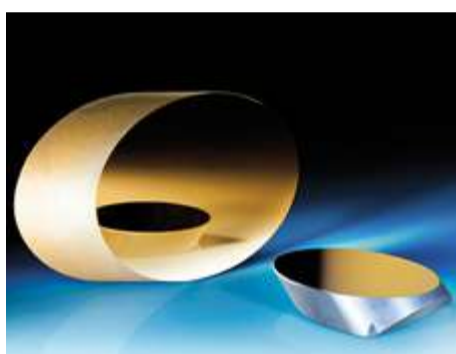


$\lambda/4$ First Surface Mirrors



Prism and Beamsplitter Mounts

Frequently Purchased Together



#30-205 - Elliptical Mirror 31.75mm Minor Axis Protected Aluminum
C\$179.20

Qty



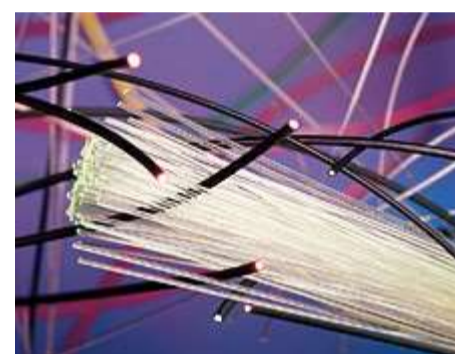
#31-433 - 51 x 76mm, 50R/50T, Plate Beamsplitter
C\$130.20

Qty



#31-855 - 12.0mm Dia. x 24.0mm FL, MgF₂ Coated, Plano-Convex Lens
C\$56.70

Qty



#02-549 - 2000µm, Optical Grade Plastic Optical Fiber Unjacketed
C\$5.60

Qty

Resources

Media Type

- Application Note
- Video
- FAQ
- Glossary

CASE STUDIES

Laser Optics for Eye Surgery

TRENDING IN OPTICS

Increasing Challenges for Sourcing Laser Optics...

CASE STUDIES

Using IR Spectroscopy for Counterfeit Drug Detection

APPLICATION NOTE

Metallic Mirror Coatings

VIDEO

Optical Mirrors Review

FAQ

What is the difference between a first-surface...

[View More](#)

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