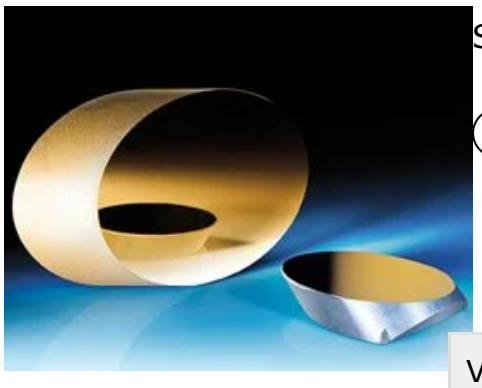
TECHSPEC® Elliptical Mirror 76.2mm Minor Axis Enhanced Aluminum



Stock #32-138 2 In Stock

- 1 +

C$770.00

ADD TO CART

Volume Pricing	
Qty 1-5	C$770.00 each
Qty 6-25	C$614.60 each
Qty 26-49	C$576.80 each
Need More?	Request Quote

Product Downloads

STEP:step | Curve:pdf | PDF Drawing:pdf | IGES:igs | Zemax:zar | Zemax:zmx | eDrawing:eprt | Code V:seq | EO Spec Sheet | Download All

General

Type:	Flat Mirror	**Note:**	Flatness specification is Peak to Valley

Physical & Mechanical Properties

Thickness Tolerance (inches):	±0.060	**Thickness (mm):**	19.05 ±1.52
Clear Aperture CA (mm):	68.58 (Minor Axis) 97.00 (Major Axis)	**Dimensional Tolerance (inches):**	±0.020
Dimensional Tolerance (mm):	±0.50	**Major Axis (mm):**	107.77
Minor Axis (mm):	76.20		

Optical Properties

Wavelength Range (µm):	0.45 - 0.65	**Coating Type:**	Metal
Coating:	Enhanced Aluminum (450-650nm)	**Surface Flatness (P-V):**	λ/8
Wavelength Range (nm):	450 - 650	**Substrate:** ⓘ	BOROFLOAT®
Coating Specification:	R_{avg} >95% @ 450 - 650nm	**Surface Quality:**	60-40
Damage Threshold, Reference: ⓘ	0.2 J/cm^2 @ 532nm, 10ns		

Regulatory Compliance

RoHS 2015:	Compliant	Certificate of Conformance:	View
Reach 247:	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

See Figure B in Technical Information tab for dimensional diagram.

- Circular Profile When Oriented at 45°
- Ideal for Redirecting Light
- Multiple Sizes and Coatings Offered

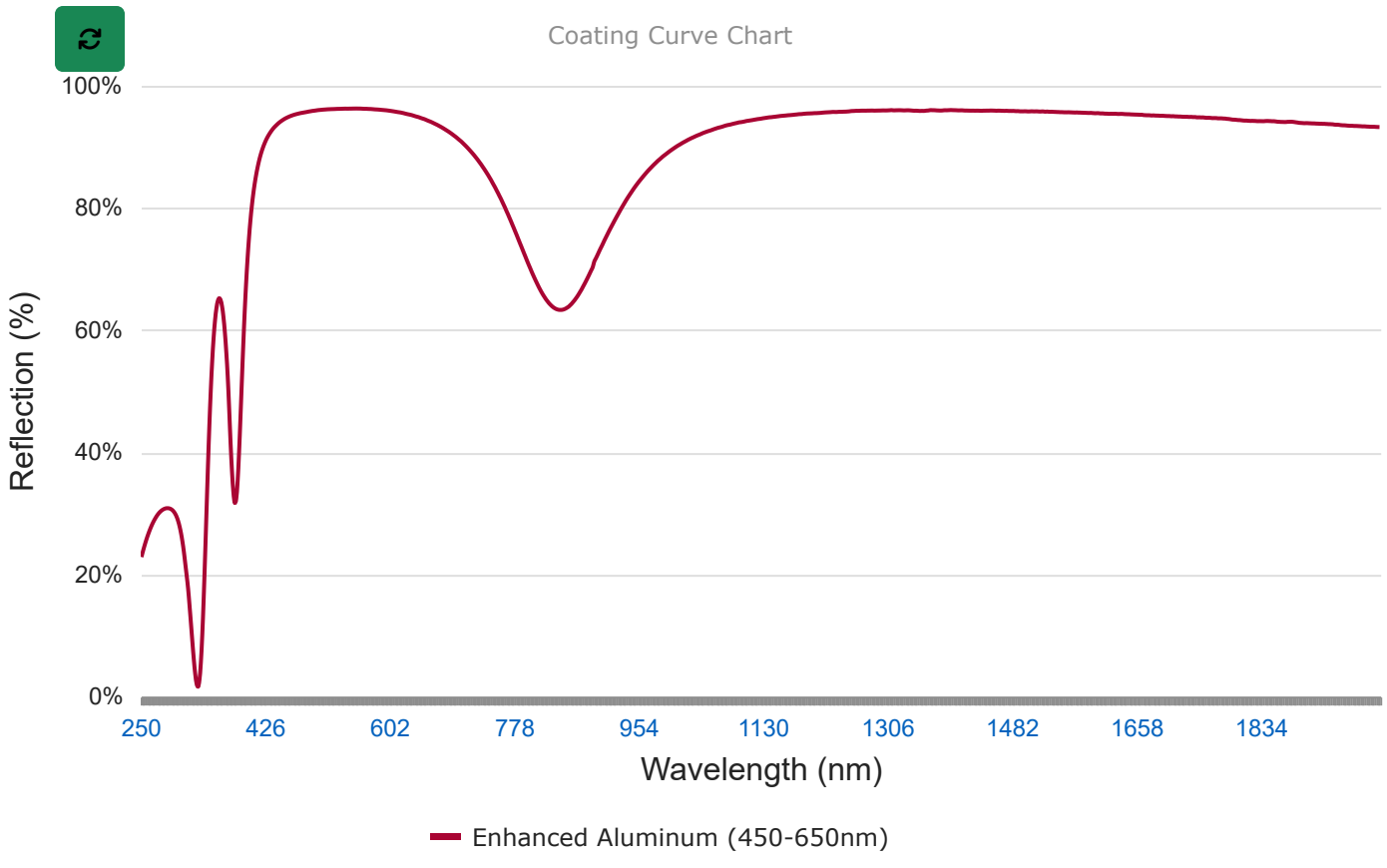
TECHSPEC® λ/8 Precision Elliptical Flat Mirrors are ideal for research and astronomical applications. Because of their elongated major axis, they are suited to bending and folding light at precise angles with minimum wavefront distortion. These mirrors have a circular profile when they are oriented at 45º. TECHSPEC® λ/8 Precision Elliptical Flat Mirrors feature a BOROFLOAT® substrate. Multiple sizes and coating options are offered to best suit a wide range of applications.

Technical Information

Fig.	Minor Axis (mm)	Major Axis (mm)	Thickness (mm)	Stock No.					
				Uncoated	Protected Aluminum	UV Enhanced Aluminum	Enhanced Aluminum	Protected Gold	Protected Silver
B	12.70	17.96	3.81	#32-270	#32-271	#43-573	#32-272	#32-273	#89-454
B	22.23	31.42	6.35	#32-093	#30-836	#43-574	#32-131	#32-085	#89-455
B	26.97	38.15	6.35	#32-094	#30-837	#43-575	#32-132	#32-086	#89-456
A	31.75	44.91	9.53	#32-095	#30-205	#43-576	#32-133	#32-087	#89-457
A	38.10	53.87	9.53	#32-096	#30-258	#43-577	#32-134	#32-088	#89-458
A	47.63	67.36	11.68	#32-097	#30-840	#43-578	#32-135	#32-089	#89-459
B	57.15	80.82	15.88	#32-098	#41-131	#43-579	#32-136	#32-090	#89-460
B	66.68	94.28	15.88	#32-099	#42-583	#43-580	#32-137	#32-091	#89-461
B	76.20	107.77	19.05	#32-100	#42-584	#43-581	#32-138	#32-092	#89-462

Coating Curves

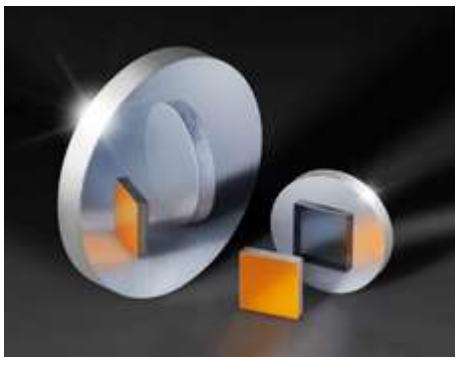
Enhanced Aluminum (450-650nm)



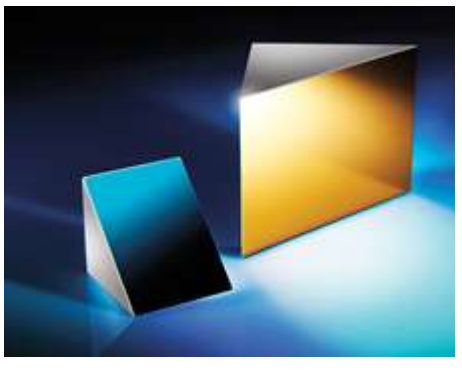
Please note that coating performance outside each product's specified design range is theoretical and may vary.

Related Products

Optical Mirror Mounts



Flat Mirrors



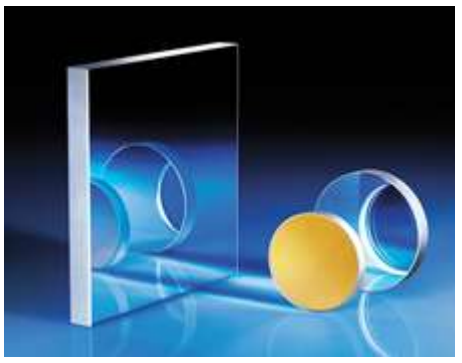
Right Angle Prism Mirrors (Hypotenuse Coated)

Elliptical Plate Beamsplitters

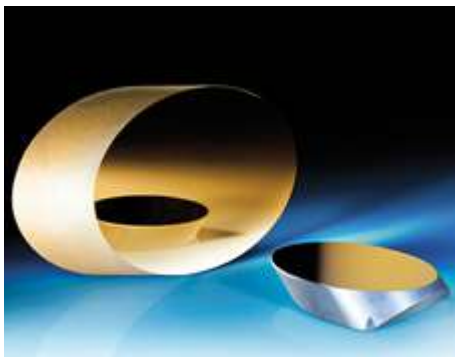
Frequently Purchased Together

#45-109 – 12.5mm, Aluminum Coated, N-BK7 Right Angle Prism
C$106.40
Qty

#47-793 – 12.5mm, Al & AR Coated, Fused Silica, Right Angle Prism
C$186.20
Qty



#48-452 – 75 x 75mm Enhanced Aluminum, 4-6λ Mirror
C$77.00
Qty



#32-092 – Elliptical Mirror 76.2mm Minor Axis Protected Gold
C$896.00
Qty

Resources

Media Type

CASE STUDIES

APPLICATION NOTE

APPLICATION NOTE

- [ ] Application Note
- [ ] Video
- [ ] FAQ
- [ ] Glossary

Using IR Spectroscopy for Counterfeit Drug Detection

Roughness of Diamond Turned Off-Axis Paraboli...

Off-Axis Parabolic Mirror Selection...

▶ VIDEO

Compound Parabolic Concentrators Review

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I would like to use your Off-Axis Mirror in a laser...

? FAQ

How are your Off-Axis Parabolic Metal Mirrors...

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