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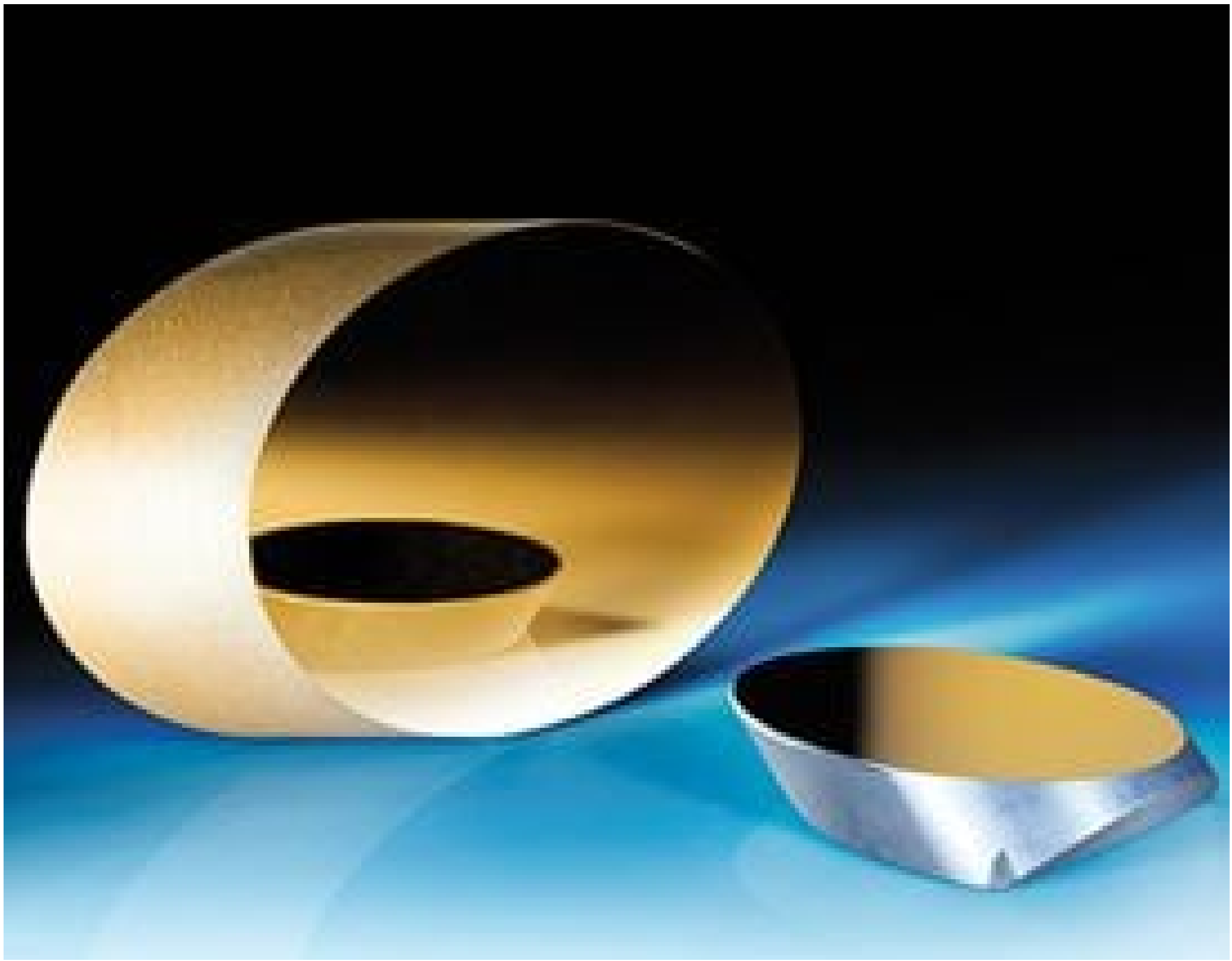
TECHSPEC® Elliptical Mirror 66.68mm Minor Axis Protected Aluminum



Stock **#42-583** **1 In Stock**

- 1 + **€382**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**€382,00** each
Qty 6-25	**€306,00** each
Qty 26-49	**€286,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Note:
Flatness specification is Peak to Valley

Type:
Flat Mirror

Physical & Mechanical Properties

Minor Axis (mm):
66.68

Major Axis (mm):
94.28

Dimensional Tolerance (mm):
±0.38

Dimensional Tolerance (inches):
±0.015 minor,
±0.015 major

Clear Aperture CA (mm):
60.02 (Minor Axis)
84.86 (Major Axis)

Thickness (mm):
15.88 ±1.52

Thickness Tolerance (inches):
±0.060

Optical Properties

Surface Flatness (P-V):
λ/8

Substrate:
BOROFLOAT®

Surface Quality:
60-40

Coating Specification:
R_{avg} >85% @ 400 - 700nm
R_{avg} >90% @ 400 - 2000nm

Coating:
Protected Aluminum (400-2000nm)

Coating Type:
Metal

Wavelength Range (µm):
0.4 - 2

Wavelength Range (nm):
400 - 2000

Damage Threshold, Reference:
0.3 J/cm^2 @ 532nm & 1064nm, 10ns

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Product Details

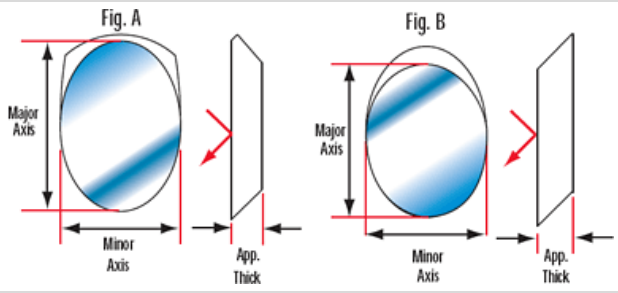
See Figure B in Technical Information tab for dimensional diagram.

- 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



Custom

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.**