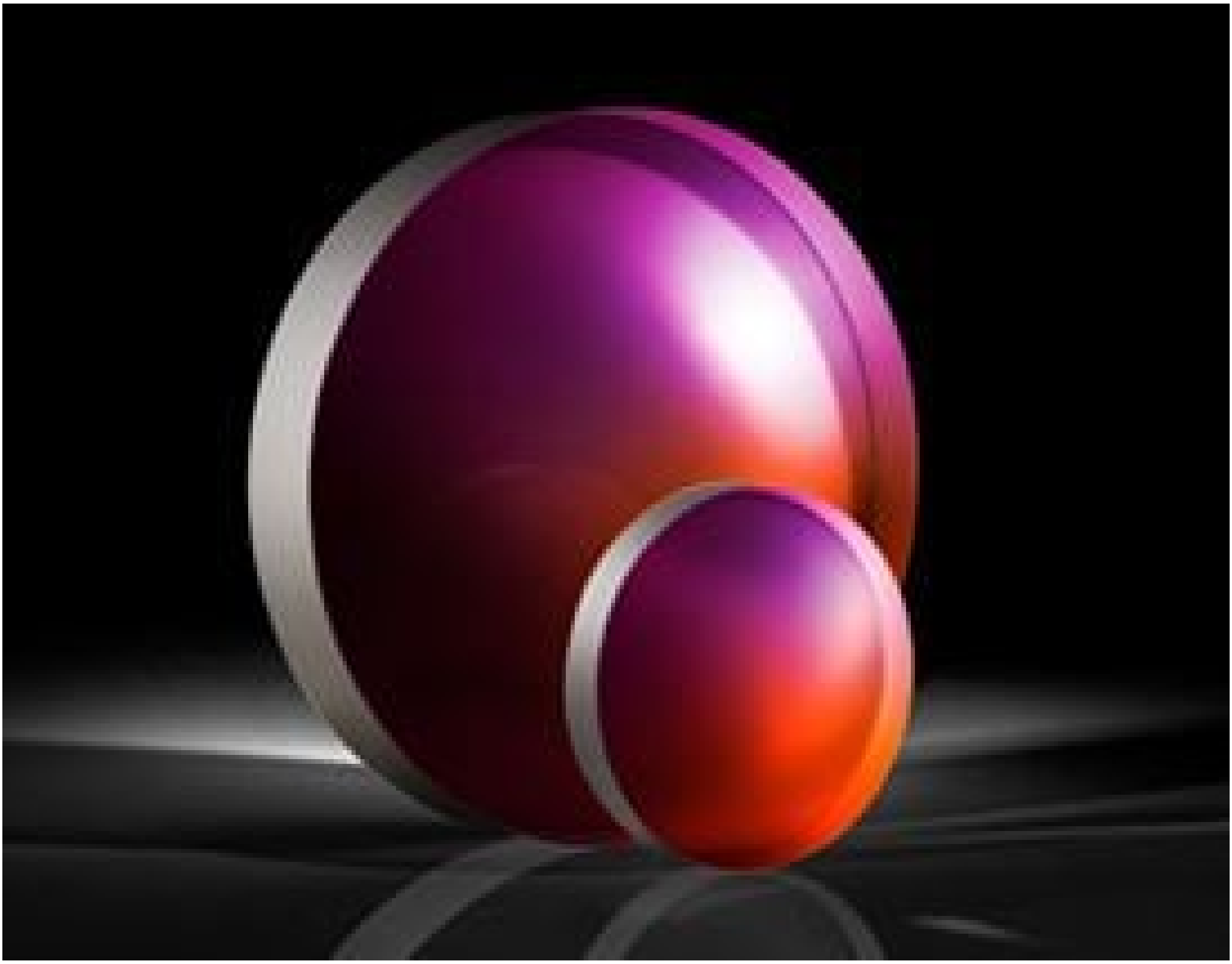
See all 6 Products in Family

TECHSPEC® 4.25" Dia. x 45" FL Prot. Alum., Spherical Mirror



Stock **#50-051** CONTACT US

- 1 + **£512**.00

ADD TO CART

Volume Pricing	
Qty 1-9	**£512.00** each
Qty 10-25	**£430.40** each
Qty 26-49	**£404.80** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Spherical Mirror

Physical & Mechanical Properties

Diameter (mm):
107.95 +0.5/-0

Back Surface:
Ground

Diameter (inches):
4.25

Diameter Tolerance (inches):
+0.02/-0

Edge Thickness ET (inches):
0.75

Edge Thickness ET (mm):
19.05

Edge Thickness Tolerance (%):
+0.0/-10

Optical Properties

Coating Type:
Metal

Coating:
Protected Aluminum (400-2000nm)

Wavelength Range (nm):
400 - 2000

Effective Focal Length EFL (mm):
1,143.00

Substrate:
BOROFLOAT®

Aperture (f/#):
f/10.6

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

Effective Focal Length EFL (inches):
45.00

Focal Length Tolerance (%):
±2

Surface Accuracy:
λ/8

Surface Quality:
60-40

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

Radius of Curvature (mm):
2,286.00

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

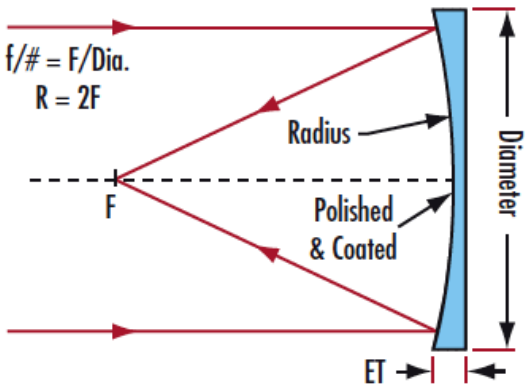
Reach 247:
Compliant

Product Details

- Ideal for Multispectral Focusing Applications
- Variety of Coating Options Offered
- Multiple Sizes Available
- λ/4 Spherical Mirrors Also Available

TECHSPEC® λ/8 Precision Spherical Mirrors are designed for research and technical OEM applications in the UV, visible, or IR ranges. Each size is available uncoated or with one of our various reflective mirror coatings.

Technical Information



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.**

;