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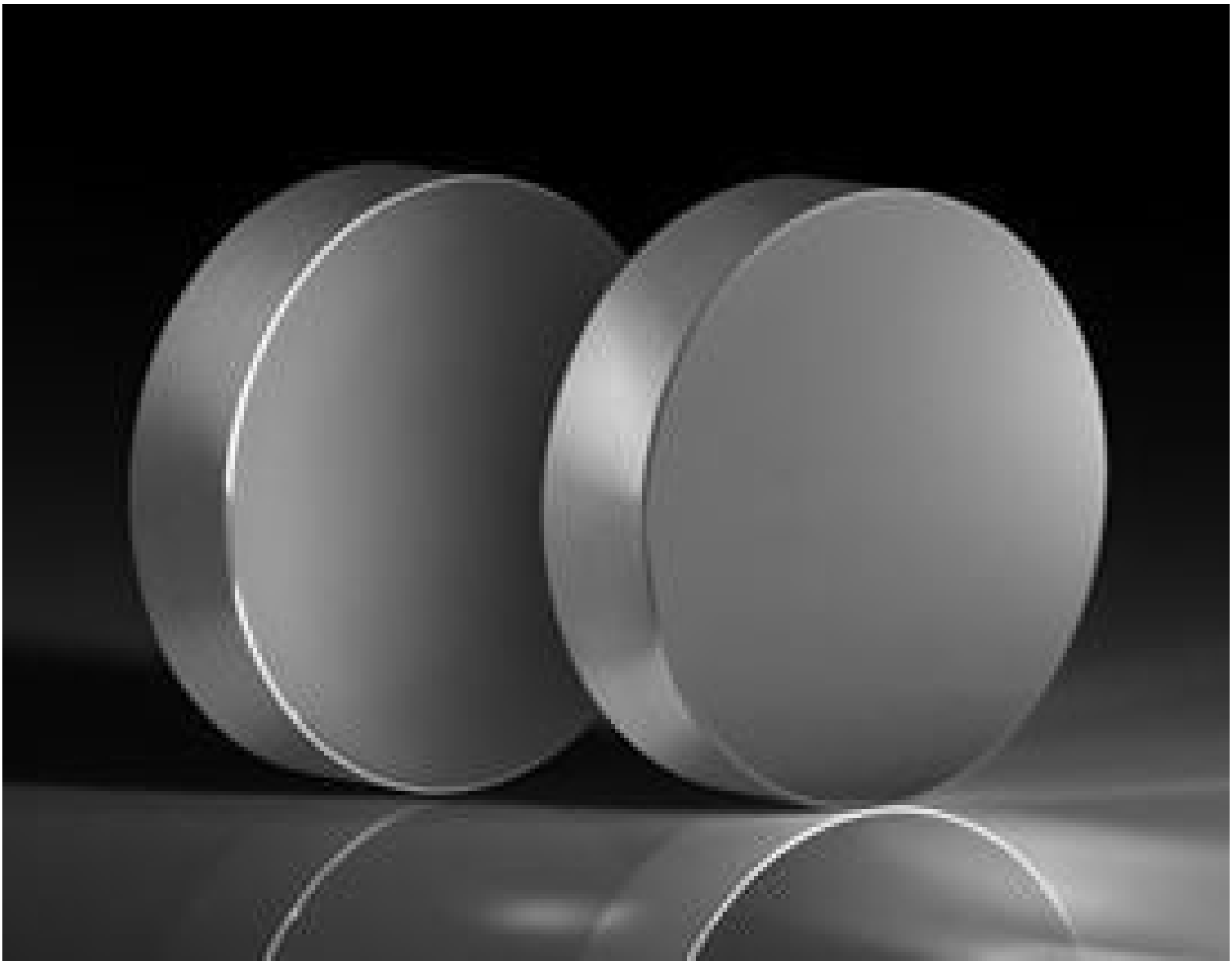
TECHSPEC® 25.4mm Dia., 25mm FL, Vacuum UV (VUV) Spherical Mirror



Stock **#24-056** **7 In Stock**

- 1 + **₹29,583**

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Volume Pricing	
Qty 1-5	**₹29,583** each
Qty 6-25	**₹23,666** each
Qty 26-49	**₹22,187** each
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Product Downloads

General

Type:

Concave Mirror

Physical & Mechanical Properties

Diameter (mm):

25.40 +0.00/-0.20

Back Surface:

Fine Grind

Center Thickness CT (mm):
4.71

Clear Aperture (%):
90

Edge Thickness ET (mm):
6.35 ±0.10

Optical Properties

Design Wavelength DWL (nm):
120

Substrate:
Fused Silica (Corning 7980)

Surface Quality:
20-10

Effective Focal Length EFL (mm):
25.00

Radius of Curvature (mm):
50.00

Coating:
Enhanced Aluminum (120-600nm)

Coating Specification:
R_{avg} ≥78% @ 120 - 125nm
R_{avg} ≥85% @ 120 - 600nm

Coating Type:
Metal

Radius R_1 (mm):
50.00

Wavelength Range (nm):
120 - 600

Irregularity (P-V) @ 632.8nm:
λ/10

Material Properties

Vacuum Compatibility:
10^{-7} Torr

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

REACH 241:
Compliant

Country of Origin:
United States

Importer:
Edmund Optics India Private Limited

Product Details

- 120nm and 190nm Design Wavelengths
- Ideal for Focusing VUV or DUV Light
- Broadband Reflectivity through the Visible and IR
- Also Available as Precision Flat Mirrors

TECHSPEC® Precision Spherical Ultraviolet (UV) Mirrors feature Enhanced Deep UV (DUV) or Vacuum UV (VUV) enhanced metallic coatings on high precision concave laser mirror substrates. The VUV coating is designed for peak reflectivity at 120nm and the Enhanced DUV coating at 190nm; both coatings provide similar reflectivity to standard enhanced aluminum coatings outside of UV wavelengths. These coatings are vacuum compatible down to 10-7 Torr and are deposited on fused silica substrates, providing excellent resistance to temperature fluctuations. TECHSPEC® Precision Spherical Ultraviolet (UV) Mirrors are ideal for use in DUV spectrophotometers, inductively coupled plasma (ICP) spectrophotometers, or other VUV/UV-based analytical applications.

Note: These enhanced metallic coatings are relatively soft and can be easily damaged by fingerprints and aerosols.

Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our Optics Cleaning Resources for step-by-step guides and best practices. For personalized assistance, Email us or Chat with our technical support team.

Component Handling Tools

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.**

Compatible Mounts