

TECHSPEC® 50mm Dia x -25mm FL, Protected Silver, Convex Mirror



Convex Mirrors

Stock #87-683 [CONTACT US](#)

1

£71^{.20}

ADD TO CART

Volume Pricing	
Qty 1-5	£71.20 each
Qty 6-25	£57.60 each
Qty 26-49	£56.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

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

General

Type: Spherical Mirror

Physical & Mechanical Properties

Diameter (mm): 50.00	Center Thickness CT (mm): 8.00
Clear Aperture (%): 90.00	Dimensional Tolerance (mm): +0.0/-0.1
Edge Thickness ET (mm): 1.30	Radius R (mm): 50.0
Thickness Tolerance (mm): ±0.1	

Optical Properties

Focal Length FL (mm): -25.00	Coating: Protected Silver (450-10000nm)
Coating Specification: R _{avg} >98% @ 450 - 2000nm R _{avg} >98% @ 2000 - 10,000nm	Coating Type: Metal
Focal Length Tolerance (%): ±2	Substrate: N-BK7
Surface Accuracy: λ/2	Surface Quality: 60-40
Wavelength Range (nm): 500 - 10000	

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

- Precision Polished Surface
- $\lambda/2$ Surface Accuracy
- Variety of Coating Options Offered

TECHSPEC® Convex Mirrors are ideal for expanding an imaging system's field of view without introducing chromatic aberrations. TECHSPEC Convex Mirrors utilize a precision polished surface with a $\lambda/2$ surface accuracy to maintain image quality. These optical mirrors create virtual, upright images. Shorter focal lengths generate wider fields of view, while longer focal lengths minimize distortion.

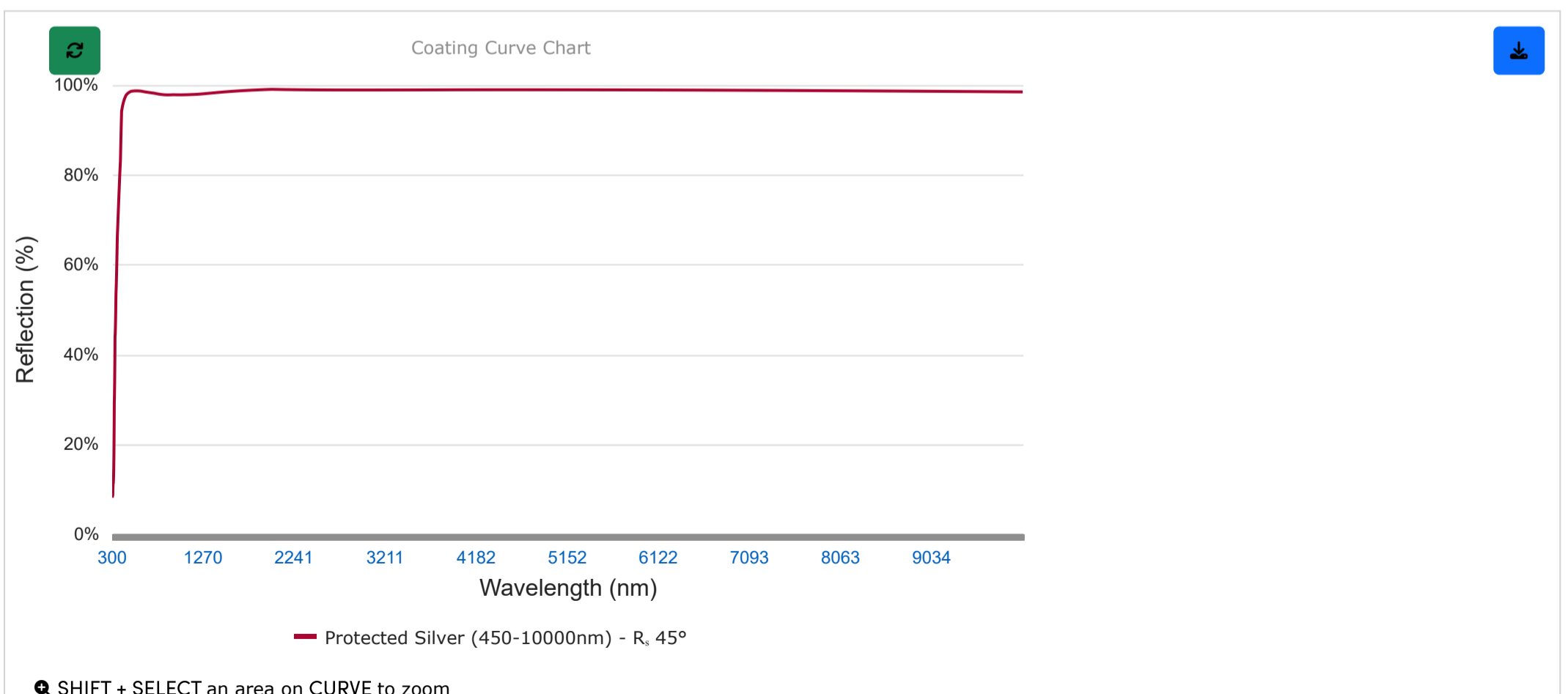
Coating Curves

Protected Silver (450-10000nm) - R_s 45°

Protected Silver (450-10000nm) - R_p 45°

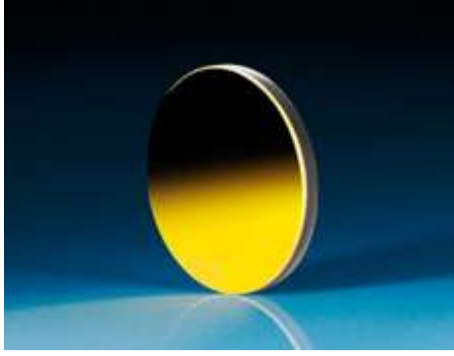
Protected Silver (450-10000nm) - R(avg) 45°

Protected Silver (450-10000nm) - R @ 0°



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

Related Products



Convex Spherical Mirrors



Focusing (Concave) Mirrors



Optical Mirror Mounts



Optical Cleaning

Frequently Purchased Together



#03-618 - 5mm Spacer to convert CS-Mount Cameras to C-Mount
£23.20

Qty



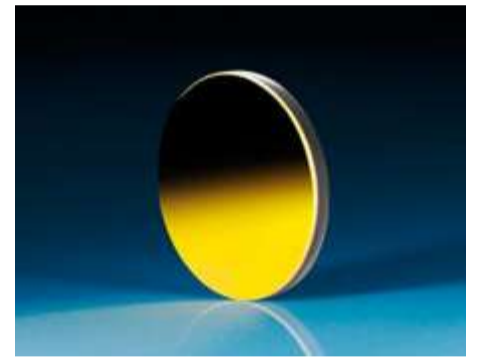
#53-876 - 24" Diameter, Parabolic Reflector
£114.40

Qty



#59-873 - 50mm C Series Fixed Focal Length Lens
£278.00

Qty



#64-062 - 25mm Dia x -25.8mm FL Enhanced Aluminum Coated, Convex Mirror
£41.60

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...

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