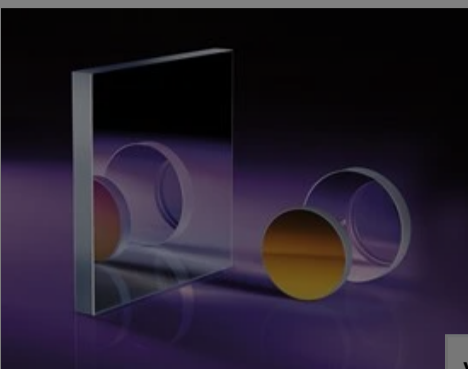


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/ [λ/4 First Surface Mirrors](#)

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TECHSPEC® 50 x 50



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Submit

1

€163⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€163,00 each
Qty 6-25	€130,00 each
Qty 26-49	€123,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

General

Type: Flat Mirror

Physical & Mechanical Properties

Thickness (mm):	10.00 ±0.25	Dimensions (mm):	50.0 x 50.0
Back Surface:	Commercial Polish	Bevel:	Protective as needed
Clear Aperture (%):	85	Dimensional Tolerance (mm):	±0.25
Edges:	Fine Ground	Length (mm):	50.00
Width (mm):	50.00		

Optical Properties

Wavelength Range (µm):	0.45 - 10	Coating Type:	Metal
Coating:	Protected Silver (450-10000nm)	Surface Flatness (P-V):	λ/4
Wavelength Range (nm):	450 - 10000	Substrate:	BOROFLOAT®
Coating Specification:	R _{avg} >98% @ 450 - 800nm R _{avg} >98.5% @ 2000 - 10,000nm	Surface Quality:	60-40
Damage Threshold, Reference:	0.5 J/cm ² @ 532nm & 1064nm, 10ns		

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: **View**

Reach 247: **Compliant**

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Need different specs or measurements?

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

- Available in a Wide Range of Sizes and Shapes
- Precision Metallic Mirror Coatings
- **Contact Us** for Custom Sizes

TECHSPEC® $\lambda/4$ First Surface Mirrors feature a high reflectivity coating deposited on the front surface of the glass substrate. The coated surface should be oriented to reflect incident light. TECHSPEC $\lambda/4$ First Surface Mirrors are offered in circular, square, and rectangular dimensions. First surface mirrors are ideal for applications requiring the mirror to be mounted at 45° in order to produce a 90° bend in the light path. These first surface mirrors easily mount into a [range of optical mounts](#) to facilitate application integration. The mirrors have available coatings of enhanced aluminum, protected aluminum, protected silver, and protected gold.

Note: Surface flatness is measured before coating.

A range of mounts specifically compatible with individual TECHSPEC® First Surface Mirrors can be found on product web pages.

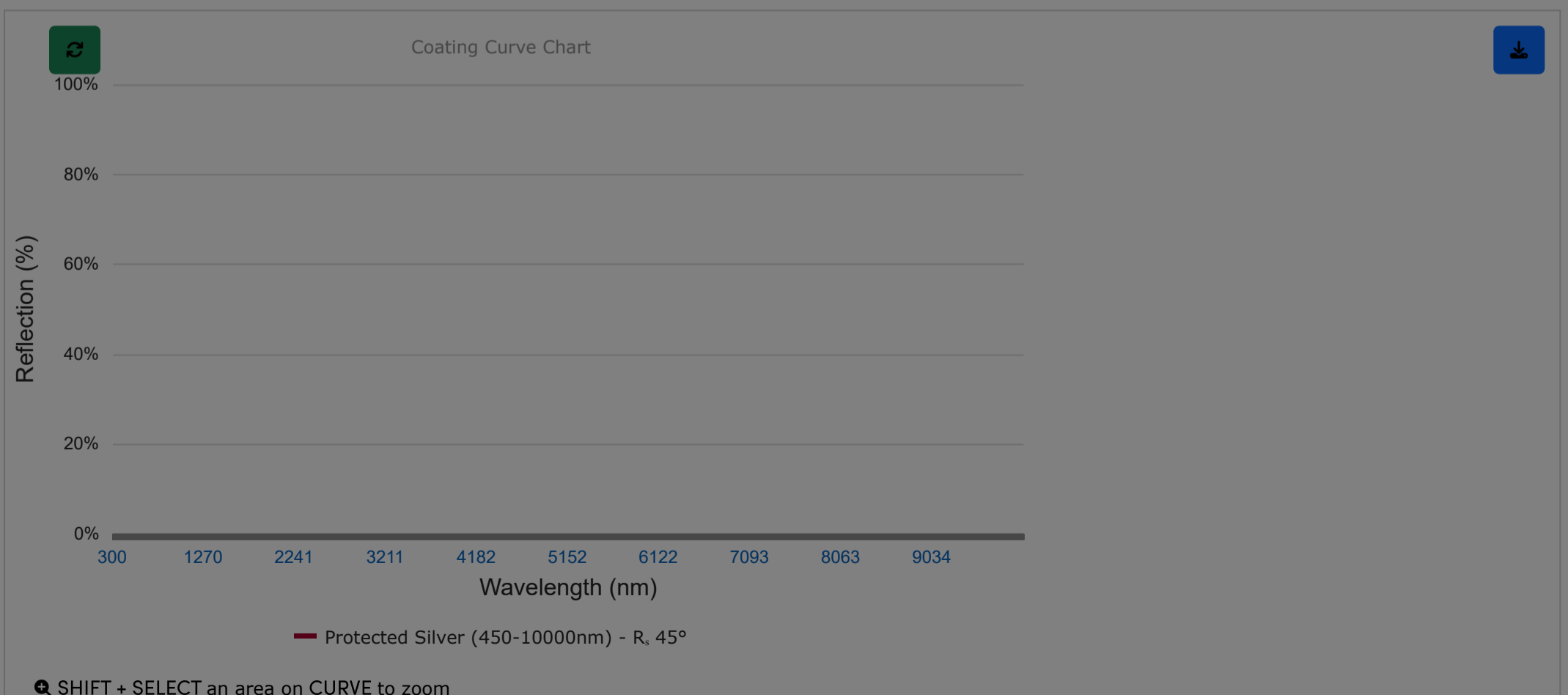
Coating Curves

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

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

Protected Silver (450-10000nm) - $R(\text{avg})$ 45°

Protected Silver (450-10000nm) - $R @ 0^\circ$

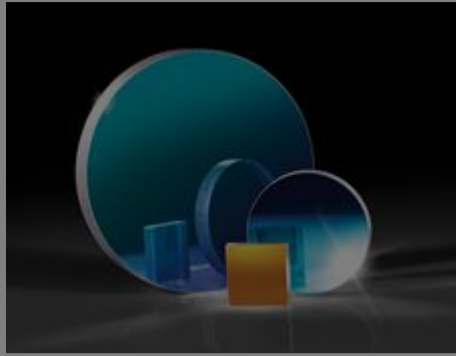


Please note that coating performance outside each product's specified design range is theoretical and may vary.

Related Products

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λ/10 First Surface Mirrors



Rhodium Coated First Surface Mirrors

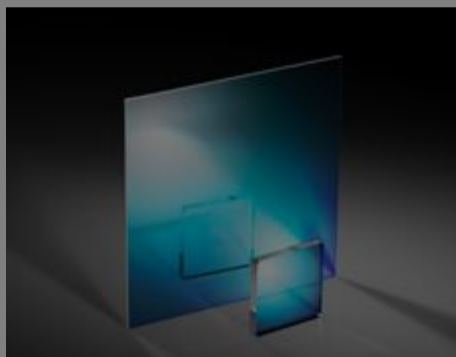


First Surface Mirrors



PUROSOL™ Optical Cleaner

Frequently Purchased Together



#31-434 - 51 x 76mm, 25R/75T, Plate Beamsplitter
€93,00

Qty



#32-332 - 15mm, Uncoated, N-BK7 Right Angle Prism
€69,50

Qty



#03-666 - 8.0 - 118.0 Optic Height, English Bar-Type Optic Holder
€120,00

Qty



#27-501 - 100mm Dia x 200mm Focal Length, PCX Condenser Lens
€126,00

Qty

Compatible Mounts

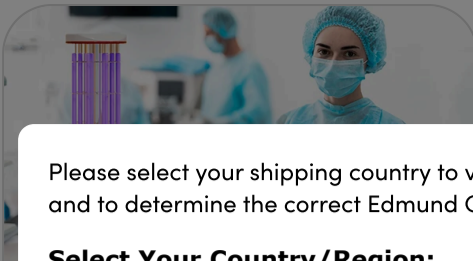
	Title	Type	Compare	Stock Number	Price	Buy
	60mm sq - Rectangular Bar Clamp	Fixed		#54-995	€126,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	50/50.8mm Sq. Kinematic Mount, 2 Screws	Adjustable - Tip-Tilt		#58-858	€143,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	50/50.8mm Sq. Kinematic Mount, 3 Screws	Adjustable - Tip-Tilt		#58-861	€157,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	3.0" Angle Mirror Mount	Adjustable - Tip-Tilt		#36-481	€250,00 Request Quote	20+ In Stock <input type="text" value="1"/>

Check out our full selection of mounts [here](#).

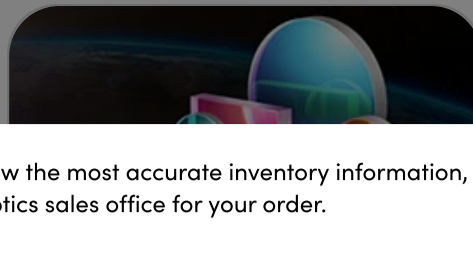
Resources

Media Type


- Application Note
- Video
- FAQ
- Glossary



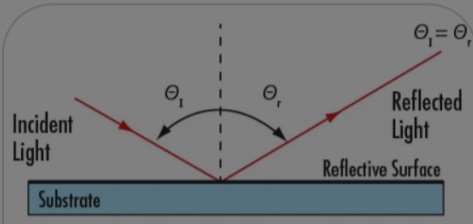
Eye Surgery




Coating Laser Optics...



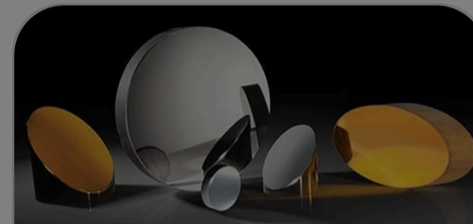
Using IR Spectroscopy for Counterfeit Drug Detection



APPLICATION NOTE
Metallic Mirror Coatings



VIDEO
Optical Mirrors Review



FAQ
What is the difference between a first-surface...

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