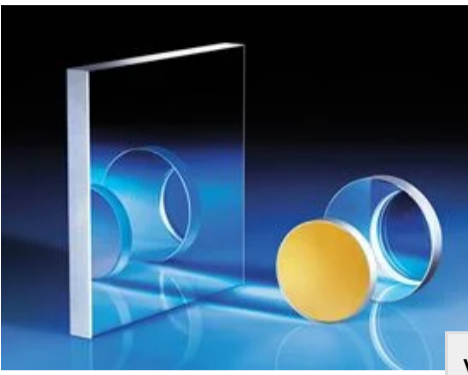


TECHSPEC® 6 x 8.5mm Silver, 4-6λ Mirror



Stock #89-465 1 In Stock

1 £26^{.80}

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Volume Pricing	
Qty 1-5	£26.80 each
Qty 6-25	£20.00 each
Qty 26-99	£19.20 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): 2.00	Dimensions (mm): 6.0 x 8.5
Clear Aperture CA (mm): 5.00 x 7.50	Dimensional Tolerance (mm): ±0.25
Edges: Seamed, 0.5mm Maximum Edge Chip	Length (mm): 8.50
Width (mm): 6.00	

Optical Properties

Coating Type: Metal	Coating: Protected Silver (450-10000nm)
Surface Flatness (P-V): 4 - 6λ	Wavelength Range (nm): 450 - 10000
Substrate: Float Glass	Coating Specification: R _{avg} >98% @ 450 - 2000nm R _{avg} >98% @ 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](#)

Product Details

- Wide Variety of Shapes and Sizes Available
- Enhanced Aluminum, Protected Gold, and Protected Silver Coatings for high reflectivity from 450-10000nm
- **Contact Us** for Custom Sizes

TECHSPEC® First Surface Mirrors feature a high reflectivity coating deposited on the front surface of the glass substrate. The mirrors are available in enhanced aluminum, protected gold, and protected silver coatings for high reflectivity from 450-10000nm. The coated surface should be oriented to reflect incident light. TECHSPEC 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.

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

TECHSPEC® First Surface Mirrors feature a high-reflectivity coating deposited on the front surface of a float-glass substrate to minimize ghosting and enable accurate beam redirection.

They are available with enhanced aluminum, protected silver, and protected gold coatings for applications requiring high reflectivity from 450 – 10000nm.

These mirrors are ideal for optical path folding, beam steering, and imaging systems where the mirror is mounted at 45° to produce a 90° bend in the light path.

Offered in circular, square, and rectangular formats, they are well-suited for OEM integration, prototype builds, and general laboratory alignment setups. With typical surface flatness of 4 – 6λ (waves) and 60–40 surface quality, they provide a cost-effective solution for applications that require reliable reflected beam performance without the added expense of precision polished substrates.

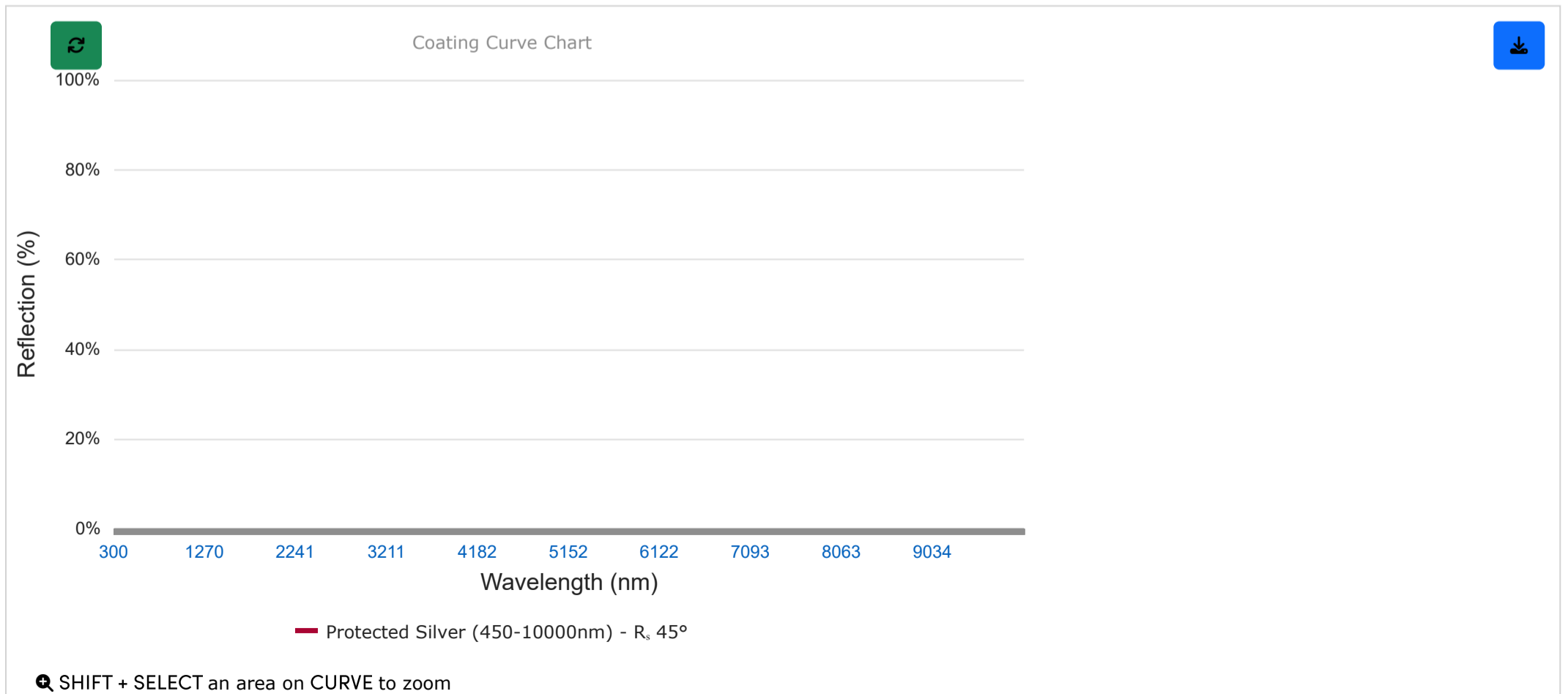
First-surface mirrors are commonly used in life sciences, metrology, semiconductor, and general photonics systems where the quality of reflected light is important.

For proper use, the coated surface should be oriented toward the incident light to avoid transmission through the substrate and preserve optical performance.

Technical Information

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



PUROSOL™ Optical Cleaner



$\lambda/4$ First Surface Mirrors



4-6 λ First Surface Mirrors



Optical Mirror Mounts

Frequently Purchased Together



#31-861 - 6mm Dia. x 9mm FL, MgF₂ Coated, Double-Convex Lens
£31.80

Qty



#32-303 - 6.25mm Dia. x 20mm FL, MgF₂ Coated, Achromatic Doublet Lens
£56.80

Qty



#32-315 - 12.5mm Dia. x 40mm FL, MgF₂ Coated, Achromatic Doublet Lens
£68.80

Qty



#32-432 - 16 x 23mm Protected Gold, $\lambda/4$ Mirror
£71.60

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	1.5" Reverse Angle Mirror Mount	Adjustable - Tip-Tilt		#37-922	£68.80 Request Quote	12 In Stock <input type="text" value="1"/>
	25mm sq - Rectangular Bar Clamp	Fixed		#54-994	£86.40 Request Quote	8 In Stock <input type="text" value="1"/>
	60mm sq - Rectangular Bar Clamp	Fixed		#54-995	£100.80 Request Quote	20+ In Stock <input type="text" value="1"/>
	Standard Model, Threaded Base - Metric Mirror Mount	Adjustable - Tip-Tilt		#56-341	£112.00 Request Quote	20+ In Stock <input type="text" value="1"/>
	Standard Model, Slotted Base - Metric Mirror Mount	Adjustable - Tip-Tilt		#56-342	£112.00 Request Quote	20+ In Stock <input type="text" value="1"/>
	Top-Screw Model, Threaded Base - Metric Mirror Mount	Adjustable - Tip-Tilt		#56-343	£148.80 Request Quote	4 In Stock <input type="text" value="1"/>
	Top-Screw Model, Slotted Base - Metric Mirror Mount	Adjustable - Tip-Tilt		#56-344	£148.80 Request Quote	20+ In Stock <input type="text" value="1"/>

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Media Type

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