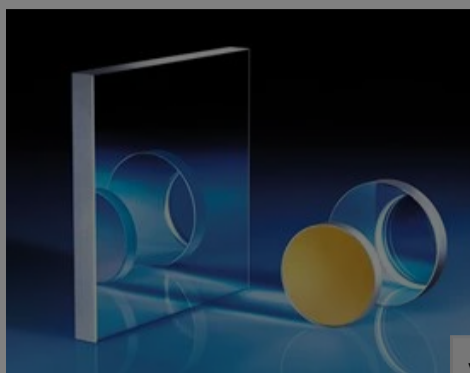


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TECHSPEC® 18mm



1

€33^{,50}

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| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | €33,50 each |
| Qty 6-25 | €25,00 each |
| Qty 26-99 | €24,00 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

| | | | |
|--------------------------------|---------------------------------|------------------------------------|--------------|
| Diameter (mm): | 18.00 ±0.25 | Thickness (mm): | 3.00 nominal |
| Clear Aperture CA (mm): | 17.00 | Dimensional Tolerance (mm): | ±0.25 |
| Edges: | Ground, 0.5mm Maximum Edge Chip | | |

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, By Design: | 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
- [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.

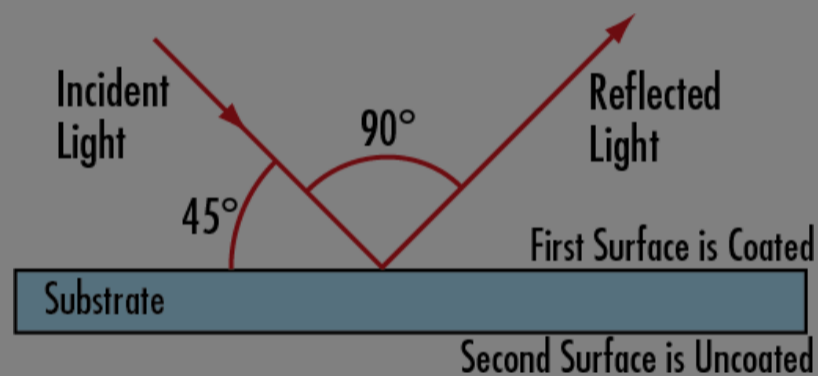
First-surface mirrors are commonly used in life sciences, metrology, semiconductor, and general photonics systems where the quality of reflected light is important.

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

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

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Technical Information



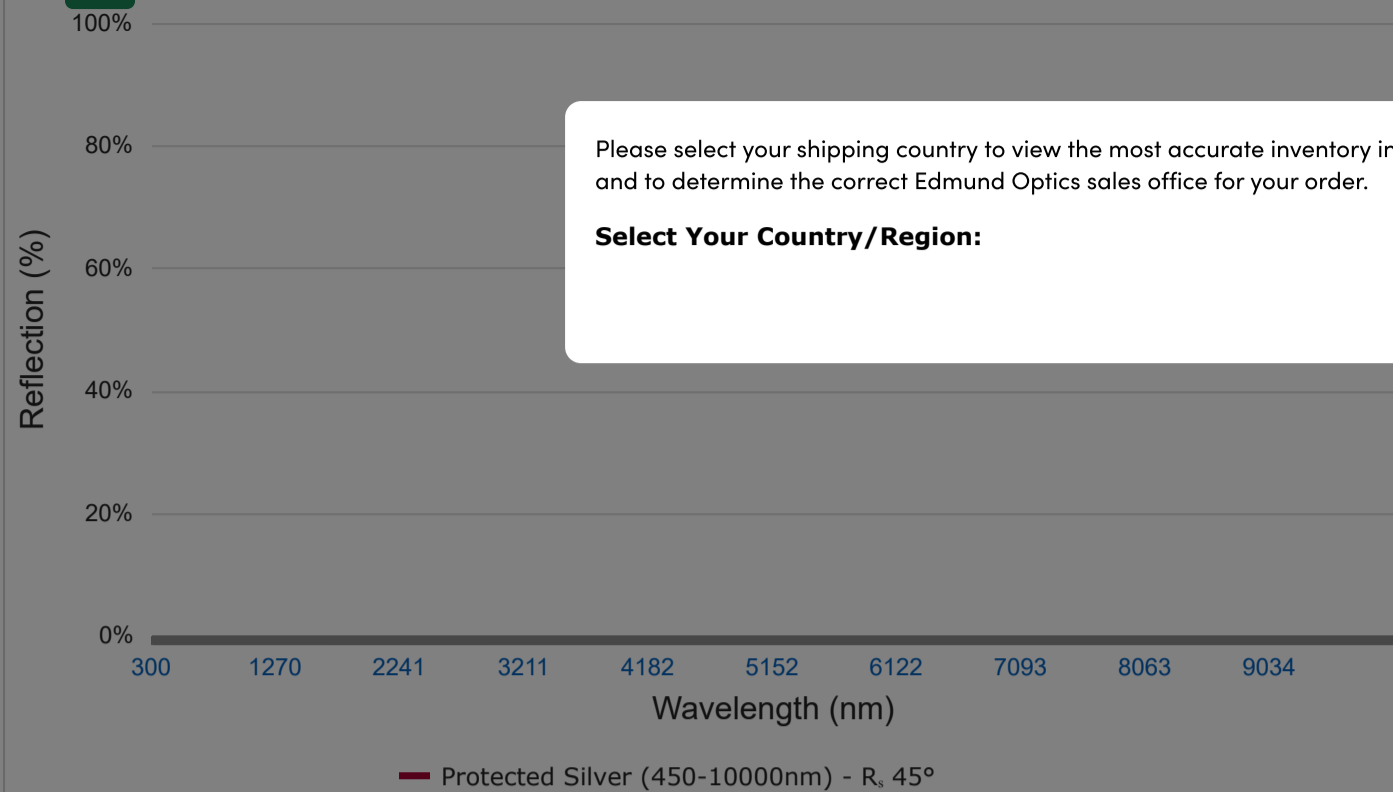
Coating Curves

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

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

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

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



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SHIFT + SELECT an area on CURVE to zoom

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

Related Products



PUROSOL™ Optical Cleaner



λ/4 First Surface Mirrors



4-6λ First Surface Mirrors



Optical Mirror Mounts

Frequently Purchased Together



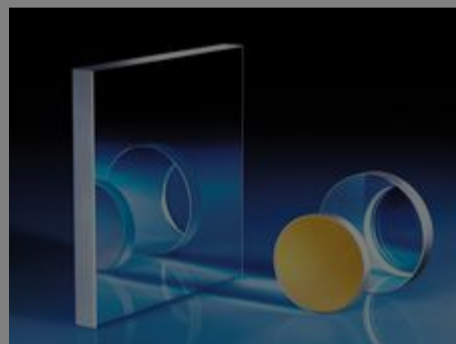
#03-629 - C-Mount Double Male Thread Ring
€36,75

Qty



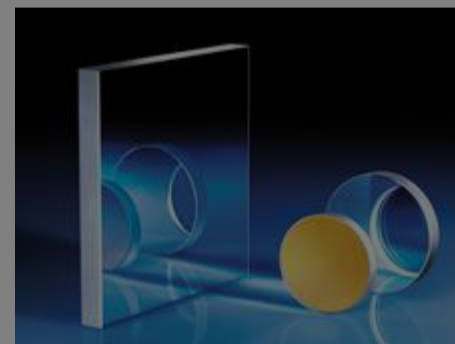
#34-771 - M30 x 1.0 Male to M22 x 0.75 Female Step-Down Adapter
€54,50

Qty



#43-875 - 25 x 35mm Enhanced Aluminum, 4-6λ Mirror
€31,00

Qty






























#45-521 - 18mm Dia Enhanced Aluminum, 4-6λ Mirror
€28,50

Qty

Compatible Mounts

| | Title | Type | Compare | Stock Number | Price | Buy |
|--|--------------------------------|-------|---------|--------------|---|---|
| | 18.0mm Optic Dia., Optic Mount | Fixed | | #64-558 | €32,75 Request Quote | CONTACT US <input type="text" value="1"/> |

| | Title | Type | Compare | Stock Number | Price | Buy |
|---|--|-------|---------|--------------|--------------------------|---|
|  |  2.0 - 35.0mm Optic Dia., Three-Screw Adjustable Ring Mount | | | | | 20+ In Stock <input type="text" value="1"/>  |
|  |  9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount | | | | Request Quote | 20+ In Stock <input type="text" value="1"/>  |
|  |  5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder | Fixed | | #55-529 | €102,00 Request Quote | 20+ In Stock <input type="text" value="1"/>  |
|  |  7.0 - 40.0 Optic Height, English Bar-Type Optic Holder | Fixed | | #03-676 | €106,00 Request Quote | 20+ In Stock <input type="text" value="1"/>  |
|  |  10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder | Fixed | | #55-530 | €108,00 Request Quote | CONTACT US <input type="text" value="1"/>  |
|  |  7.0 - 67.0 Optic Height, English Bar-Type Optic Holder | Fixed | | #03-669 | €116,00 Request Quote | 20+ In Stock <input type="text" value="1"/>  |
|  |  8.0 - 118.0 Optic Height, English Bar-Type Optic Holder | Fixed | | #03-666 | €120,00 Request Quote | 20+ In Stock <input type="text" value="1"/>  |
|  |  4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp | Fixed | | #16-077 | €157,00 Request Quote | 5 In Stock <input type="text" value="1"/>  |
|  |  5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp | Fixed | | #16-078 | €410,00 Request Quote | CONTACT US <input type="text" value="1"/>  |

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

Resources

Media Type

- Application Note
- Video
- FAQ
- Glossary




CASE STUDIES

Laser Optics for Eye Surgery



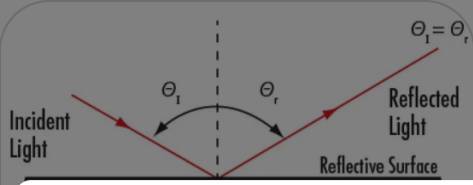
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CASE STUDIES

Using IR Spectroscopy for Counterfeit Drug Detection



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? FAQ

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

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