

**TECHSPEC® 12.5mm Dia. 193nm 45°, Excimer Laser Line Mirror**



TECHSPEC Excimer Laser Line Mirrors

Stock **#47-982** **20+ In Stock**

⊖ 1 ⊕ C\$420<sup>00</sup>

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Volume Pricing	
Qty 1-5	C\$420.00 each
Qty 6+	C\$366.80 each
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**SPECIFICATIONS**

**General**

Laser Mirror

**Type:**

**Note:**

Extended exposure to moisture can affect performance, please contact us for more specific

handling instructions.

## Physical & Mechanical Properties

<3 **Parallelism (arcmin):**

>90 **Clear Aperture (%):**

Ground **Back Surface:**

12.50 +0.0/-0.2 **Diameter (mm):**

6.00 ±0.2 **Thickness (mm):**

## Optical Properties

10-5 **Surface Quality:**

97 **Reflection at DWL (%):**

$R_{\text{abs}} >97\%$  @ 193nm **Coating Specification:**

$\lambda/10$  **Surface Flatness (P-V):**

Dielectric **Coating Type:**

Dielectric Mirror (193nm) **Coating:**

193 **Design Wavelength DWL (nm):**

45 **Angle of Incidence (°):**

[Fused Silica](#) (Corning 7980) **Substrate:**

1.5 J/cm<sup>2</sup> @ 10ns **Damage Threshold, By Design:**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **REACH 241:**

## PRODUCT DETAILS

- High Damage Threshold of up to 1.5 J/cm<sup>2</sup>
- Low Loss Dielectric Coatings
- Designed for 193nm and 248nm Lasers

TECHSPEC® Excimer Laser Line Mirrors have been optimized for use with high power excimer lasers. The mirrors are ideal for the most demanding UV applications. A precision UV grade fused silica substrate provides excellent thermal stability and low wavefront distortion. TECHSPEC® Excimer Laser Line Mirrors are offered in 12.5, 25, and 50mm diameters, with thicknesses of 6 or 10mm. These mirrors are available with DWL of 193nm or 248nm. All mirrors are designed for a 45° angle of incidence and feature very low polarization dependence. [Contact us](#) for custom 0° angle of incidence versions.

Our line of [TECHSPEC® laser line mirrors](#) are specially designed for even the most demanding laser applications. Combining laser-quality substrates of up to 10-5 surface quality, with a dense reflective coating, and a damage threshold specific to the laser type and wavelength, these mirrors are ideal for a wide range of applications requiring precision reflectivity and incredible durability. All TECHSPEC® laser line mirrors are designed to minimize scatter loss and to be easily mounted into any optical system.



## 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

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