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13.5nm, 25.4mm Dia, 45° AOI, EUV Flat Mirror



Extreme Ultraviolet (EUV) Flat Mirrors

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⊖ 1 ⊕ £2,200⁰⁰

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General

Flat Mirror **Type:**

Physical & Mechanical Properties

25.40 ±0.25 **Diameter (mm):**

6.35 ±0.508 **Thickness (mm):**

Back Surface:

Commercial Polish

90 **Clear Aperture (%)**

Fine Ground **Edges:**

3 **Parallelism (arcmin):**

<5 RMS **Surface Roughness (\square):**

Optical Properties

Metal/Semiconductor **Coating Type:**

Mo/Si Multilayer **Coating:**
Top Layer: Silicon

M10 @ 632.8nm **Surface Flatness (P-V):**

12.92 - 13.90 **Wavelength Range (nm):**

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

Single Crystal Silicon **Substrate:**

45 **Angle of Incidence ($^{\circ}$):**

$R_{\text{abs}} > 65\%$ @ 13.5nm, 45 $^{\circ}$ (s-pol) **Coating Specification:**

10-5 **Surface Quality:**

>65 **Reflection at DWL (%):**

0.98 **Full Width-Half Max FWHM (nm):**

Electrical

92 **Center Energy (eV):**

Regulatory Compliance

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

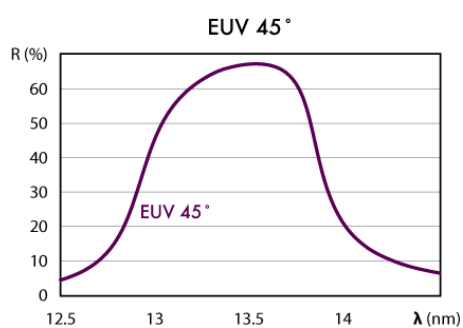
Product Details

- Maximum Achievable Reflection at 13.5nm
- Designed for EUV Beam Steering and Harmonic Separation
- 5 $^{\circ}$ and 45 $^{\circ}$ AOI Versions Available

Extreme Ultraviolet (EUV) Flat Mirrors are multilayer mirrors designed for maximum achievable reflectance at the design wavelength and angle of incidence. These mirrors feature a coating deposited on a super-polished single crystal silicon substrate and surface roughness less than 3 \square RMS. The 45 $^{\circ}$ AOI mirrors are useful for steering s-polarized beams, while the 5 $^{\circ}$ AOI mirrors may be used with unpolarized beams. Applications for EUV mirrors include Coherent Diffractive Imaging (CDI) and materials science research. Extreme Ultraviolet (EUV) Flat Mirrors can also serve as harmonic selectors for High Harmonic Generation (HHG) beams.

Note: Test data from each mirror's production run sample included.

Technical Information



Compatible Mounts

