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TECHSPEC® 800-1150nm, 25.4mm Dia. x 75mm EFL, Ultrafast-Enhanced Silver Concave Mirror



TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors

Stock **#17-269** **5 In Stock**

⊖ 1 ⊕ A\$297⁰⁰

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Volume Pricing	
Qty 1-5	A\$297.60 each
Qty 6-9	A\$262.40 each
Qty 10+	A\$233.60 each
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General

Concave Mirror **Type:**

Physical & Mechanical Properties

25.40 +0.00/-0.2 **Diameter (mm):**

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

6.35 ±0.10 **Edge Thickness ET (mm):**

Optical Properties

Fused Silica (Corning 7980) **Substrate:**

Surface Quality:
20-10

Effective Focal Length EFL (mm):
75.00

Radius of Curvature (mm):
150.00

Coating:
Ultrafast-Enhanced Silver (800-1150nm)

Coating Specification:
 $R_{avg} >99\%$ @ 850 - 1100nm, 0°
 $R_s >99\%$ @ 800 - 1150nm, 45°
 $R_p >98.5\%$ @ 850 - 1100nm, 45°

GDD Specification:
 $0 \pm 30 \text{ fs}^2$ @ 800 - 1150nm

Coating Type:
Ultrafast-Enhanced Silver

Wavelength Range (nm):
800 - 1150

Irregularity (P-V) @ 632.8nm:
 $\lambda/10$

Power (P-V) @ 632.8nm:
 λ

Damage Threshold, Reference:
 0.35 J/cm^2 @ 1030nm, 200fs, 1 pulse (typical)
 0.10 J/cm^2 @ 1030nm, 200fs, 100Hz, 1000 pulses (typical)

Regulatory Compliance

Certificate of Conformance:
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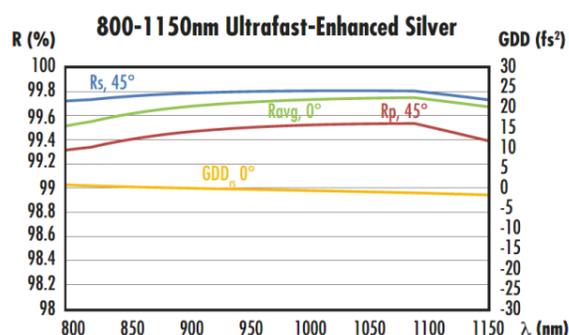
Product Details

- Ideal for Focusing Ti:sapphire and Yb:doped Laser Pulses
- Reflectivity >99% at 600 – 1000nm or 800 – 1150nm
- Low Group Delay Dispersion as Low as $0 \pm 20 \text{ fs}^2$
- Effective Focal Lengths from 25 to 500mm
- **TECHSPEC® Ultrafast-Enhanced Silver Laser Mirrors** Available

TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors feature silver coatings that are enhanced with a dielectric coating to provide increased reflectivity at 600 – 1000nm or 800 – 1150nm. These mirrors have an intrinsically low group delay dispersion (GDD) across their wavelength range, making them ideal for focusing or redirecting laser light from femtosecond lasers such as Ti:sapphire and Yb:doped lasers. Their broad wavelength range allows them to be used in applications that require a larger bandwidth than dielectric coated low GDD mirrors can provide. TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors are available in standard imperial sizes and with effective focal lengths up to 500mm.

Note: TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors can be designed with different wavelength ranges for other ultrafast laser types.

Technical Information



800-1150nm Ultrafast-Enhanced Silver

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](#).
