

TECHSPEC®

600-1000nm, 50.8mm Dia. x 250mm EFL, Ultrafast-Enhanced Silver Concave Laser Mirror



TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors

Stock **#13-071** **3 In Stock**

⊖ 1 ⊕ **\$377⁰⁰**

ADD TO CART

Volume Pricing	
Qty 1-5	\$377.86 each
Qty 6-9	\$334.54 each
Qty 10+	\$297.21 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

General

Concave Mirror

Type:

Physical & Mechanical Properties

50.80 +0.00/-0.20 **Diameter (mm):**

80 **Clear Aperture (%):**

10.00 ±0.20 **Edge Thickness ET (mm):**

Optical Properties

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

20-10 **Surface Quality:**

250.00 **Effective Focal Length EFL (mm):**

500.00 **Radius of Curvature (mm):**

Ultrafast-Enhanced Silver (600-1000nm) **Coating:**

Coating Specification:
 $R_{avg} > 99\%$ @ 600 - 1000nm, 0°
 $R_s > 99\%$ @ 540 - 1000nm, 45°
 $R_p > 98.5\%$ @ 730 - 870nm, 45°

$0 \pm 20 \text{fs}^2$ @ 600 - 1050nm **GDD Specification:**

Ultrafast-Enhanced Silver **Coating Type:**

600 - 1000 **Wavelength Range (nm):**

0.15λ **Irregularity (P-V) @ 632.8nm:**

Damage Threshold, Reference:
 0.3 J/cm^2 @ 800nm, 48fs, 1 pulse (typical)
 0.16 J/cm^2 @ 800nm, 48fs, 100Hz, 1000 pulses (typical)

Regulatory Compliance

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

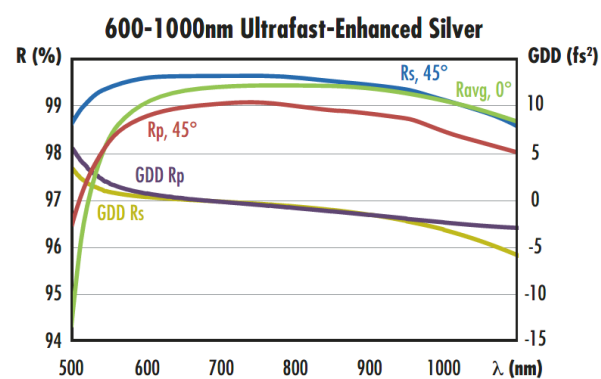
PRODUCT DETAILS

- 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



600-1000nm 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](#).
