TECHSPEC®

600-1000nm, 50.8mm Dia. x 100mm EFL, Ultrafast-Enhanced Silver Concave Laser Mirror

TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors

Stock **#13-069** **1 In Stock**

- 1 + **₹19,696**

ADD TO CART

Volume Pricing	
Qty 1-5	**₹19,696** each
Qty 6-9	**₹17,438** each
Qty 10+	**₹15,492** each
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SPECIFICATIONS

General

Type:
Concave Mirror

Physical & Mechanical Properties

Diameter (mm):
50.80 +0.00/-0.20

Clear Aperture (%):
80

Edge Thickness ET (mm):
10.00 ±0.20

Optical Properties

Substrate:
Fused Silica (Corning 7980)

Surface Quality:
20-10

Effective Focal Length EFL (mm):
100.00

Radius of Curvature (mm):
200.00

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

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

GDD Specification:
0 ±20fs^2 @ 600 - 1050nm

Coating Type:
Ultrafast-Enhanced Silver

Wavelength Range (nm):
600 - 1000

Irregularity (P-V) @ 632.8nm:
0.15λ

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

Certificate of Conformance:
View

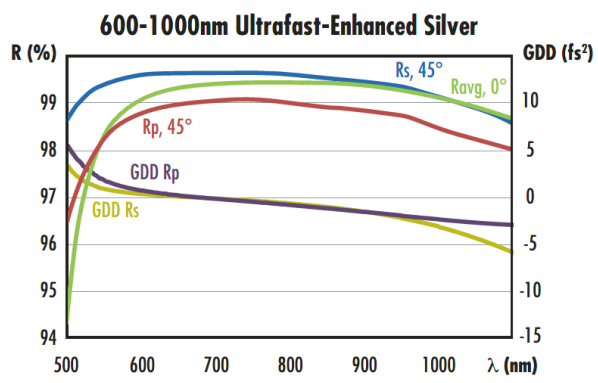
PRODUCT DETAILS

- 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 ±20fs^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.**