

TECHSPEC®

600-1000nm, 50.8mm Dia. x 50mm EFL, Ultrafast-Enhanced Silver Concave Laser Mirror



TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors

Stock **#13-068** 4 In Stock

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1

+

C\$386^{.40}

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Volume Pricing	
Qty 1-5	C\$386.40 each
Qty 6-9	C\$343.00 each
Qty 10+	C\$303.80 each
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Product Downloads

General

Type:

Concave Mirror

Physical & Mechanical Properties

Diameter (mm):

50.80 +0.00/-0.20

Clear Aperture (%):

80	
10.00 ±0.20	
Edge Thickness ET (mm):	
Ultrafast-Enhanced Silver	
Coating Type:	
Ultrafast-Enhanced Silver (600-1000nm)	
Coating:	
600 - 1000	
Wavelength Range (nm):	
50.00	
Effective Focal Length EFL (mm):	
Fused Silica (Coming 7980)	
Substrate: ☐	
Coating Specification:	
R _{avg} >99% @ 600 - 1000nm, 0° R _s >99% @ 540 - 1000nm, 45° R _p >98.5% @ 730 - 870nm, 45°	
Surface Quality:	
20-10	
Damage Threshold, Reference: ☐	
0.3 J/cm ² @ 800nm, 48fs, 1 pulse (typical) 0.16 J/cm ² @ 800nm, 48fs, 100Hz, 1000 pulses (typical)	
GDD Specification:	
0 ±20fs ² @ 600 - 1050nm	
Irregularity (P-V) @ 632.8nm:	
0.15λ	
Radius of Curvature (mm):	
100.00	
Regulatory Compliance	
Certificate of Conformance:	
View	

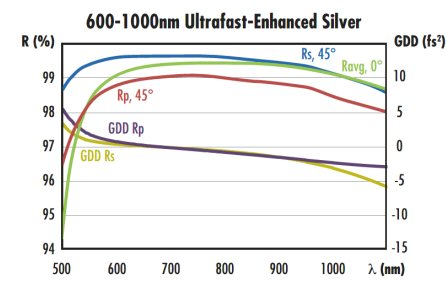
Product Details

- 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 ±20fs²
- 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](#).

