

TECHSPEC[®] 800-1150nm, 50.8mm Dia. x 50mm EFL, Ultrafast-Enhanced Silver Concave Mirror



TECHSPEC[®] Ultrafast-Enhanced Silver Concave Laser Mirrors

Stock **#17-273** **3 In Stock**

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1

+

S\$386⁴⁰

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

General	
Concave Mirror	Type:
Physical & Mechanical Properties	
50.80 +0.00/-0.2	Diameter (mm):
>90	Clear Aperture (%):

Edge Thickness ET (mm):		10 ±0.20
Optical Properties		
Substrate: ☐		Fused Silica (Corning 7980)
Surface Quality:		20-10
Effective Focal Length EFL (mm):		50.00
Radius of Curvature (mm):		100.00
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 ±30 fs ² @ 800 - 1150nm
Coating Type:		Ultrafast-Enhanced Silver
Wavelength Range (nm):		800 - 1150
Irregularity (P-V) @ 632.8nm:		0.15λ
Power (P-V) @ 632.8nm:		2 Rings
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:		View

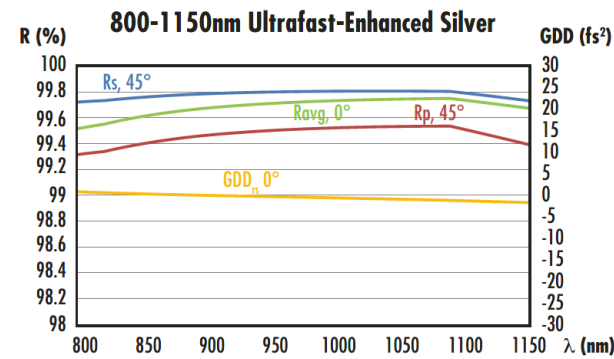
Product Details

- 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



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

