

TECHSPEC[®]

800-1150nm, 50.8mm Dia. x 250mm EFL, Ultrafast-Enhanced Silver Concave Mirror



TECHSPEC[®] Ultrafast-Enhanced Silver Concave Laser Mirrors

Stock **#17-276** **4 In Stock**

-

1

+

£221^{.50}

ADD TO CART

Volume Pricing	
Qty 1-5	£221.50 each
Qty 6-9	£196.11 each
Qty 10+	£174.22 each
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Concave Mirror

Type:

Physical & Mechanical Properties	
50.80 +0.00/-0.2	Diameter (mm):
>90	Clear Aperture (%):
10 ±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 (800-1150nm)	Coating:
R _{avg} >99% @ 850 - 1100nm, 0° R _s >99% @ 800 - 1150nm, 45° R _p >98.5% @ 850 - 1100nm, 45°	Coating Specification:
0 ±30 fs ² @ 800 - 1150nm	GDD Specification:
Ultrafast-Enhanced Silver	Coating Type:
800 - 1150	Wavelength Range (nm):
0.15λ	Irregularity (P-V) @ 632.8nm:
2 Rings	Power (P-V) @ 632.8nm:
0.35 J/cm ² @ 1030nm, 200fs, 1 pulse (typical) 0.10 J/cm ² @ 1030nm, 200fs, 100Hz, 1000 pulses (typical)	Damage Threshold, Reference: ☐
Regulatory Compliance	
View	Certificate of Conformance:

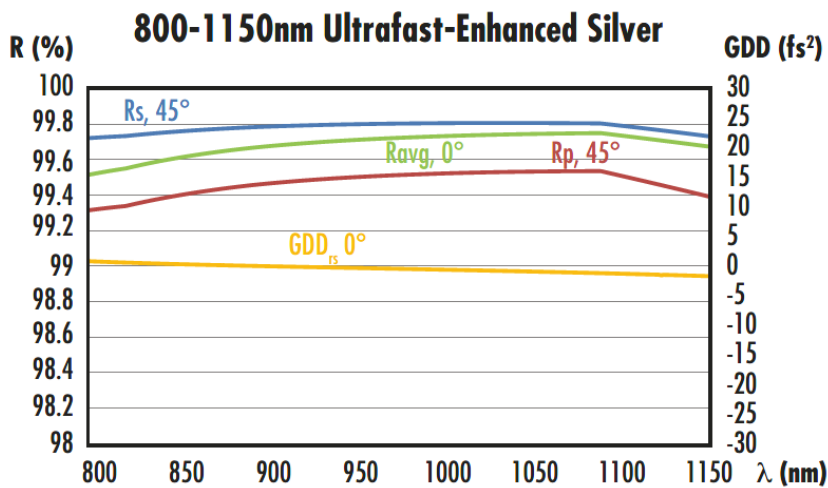
PRODUCT DETAILS

- 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 ±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

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).
