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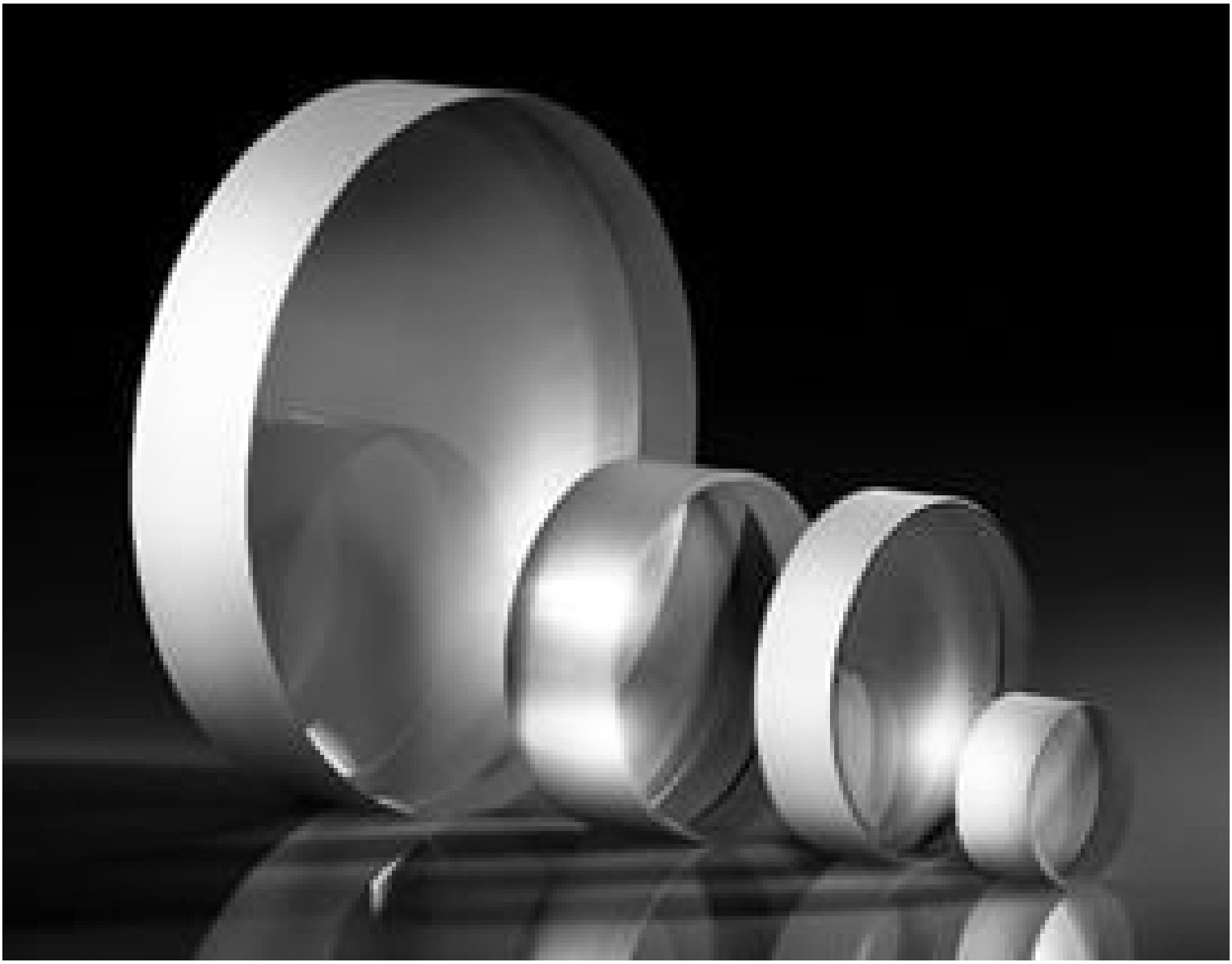
TECHSPEC® 600 - 1000nm, 76.2mm Dia. Ultrafast-Enhanced Silver Laser Mirror



Stock **#20-433** CONTACT US

- 1 + **£696**.00

ADD TO CART

Volume Pricing	
Qty 1-4	**£696.00** each
Qty 5-9	**£624.00** each
Qty 10+	**£556.00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Flat Mirror

Physical & Mechanical Properties

Parallelism (arcmin):

<3

Clear Aperture (%):

90

Back Surface:
Commercial Polish

Diameter (mm):
76.20 +0.00/-0.10

Thickness (mm):
12.70 ±0.20

Optical Properties

Surface Quality:
10-5

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

Wavelength Range (nm):
600 - 1000

Surface Flatness (P-V):
λ/10

Coating Type:
Ultrafast-Enhanced Silver

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

Substrate:
Fused Silica (Corning 7980)

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

Reach 224:
Compliant

Certificate of Conformance:
View

Need different specs or modifications?

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

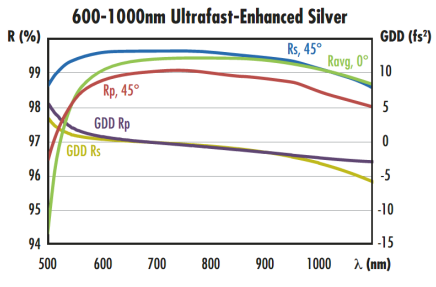
Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

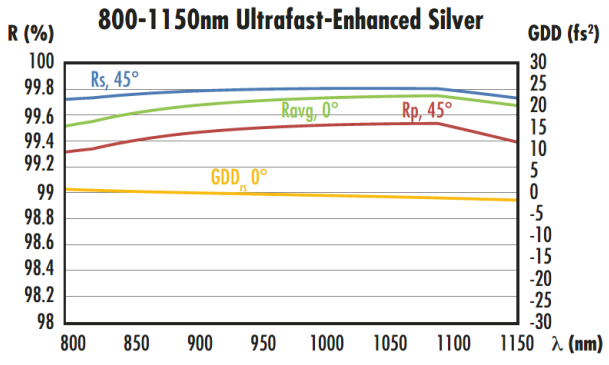
- Reflectivity >99% at 600 – 1000nm or 800 – 1150nm
- Low Group Delay Dispersion as Low as 0 ±20fs^2
- Ideal for Ti:sapphire and Yb:doped Lasers
- Standard Imperial Sizes Available
- **TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors** Available

TECHSPEC® Ultrafast-Enhanced Silver 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) within their broad wavelength range, making them ideal for the fundamental wavelength of Ti:sapphire lasers. TECHSPEC Ultrafast-Enhanced Silver Laser Mirrors are available with standard imperial sizes for easy integration into optical systems. For dielectric coated laser mirrors with low GDD at other ultrafast laser wavelengths, see our **Low GDD Ultrafast Mirrors**.

Technical Information



600-1000nm Ultrafast-Enhanced Silver



800-1150nm Ultrafast-Enhanced Silver

Compatible Mounts

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