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**TECHSPEC®**

## 800-1150nm, 50.8mm Dia. x 100mm EFL, Ultrafast-Enhanced Silver Concave Mirror



TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors

Stock **#17-274** **1 In Stock**

⊖ 1 ⊕ **A\$441<sup>00</sup>**

**ADD TO CART**

### Volume Pricing

Qty 1-5	<b>A\$441.60</b> each
Qty 6-9	<b>A\$392.00</b> each
Qty 10+	<b>A\$347.20</b> each
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### Product Downloads

### General

Concave Mirror **Type:**

### Physical & Mechanical Properties

50.80 +0.00/-0.2 **Diameter (mm):**

**Clear Aperture (%):**

>90

**Edge Thickness ET (mm):**

10 ±0.20

## Optical Properties

**Coating Type:**

Ultrafast-Enhanced Silver

**Coating:**

Ultrafast-Enhanced Silver (800-1150nm)

**Wavelength Range (nm):**

800 - 1150

**Effective Focal Length EFL (mm):**

100.00

**Substrate:**

**Fused Silica** (Corning 7980)

**Coating Specification:**

R<sub>avg</sub> >99% @ 850 - 1100nm, 0°  
R<sub>s</sub> >99% @ 800 - 1150nm, 45°  
R<sub>p</sub> >98.5% @ 850 - 1100nm, 45°

**Surface Quality:**

20-10

**Damage Threshold, Reference:**

0.35 J/cm<sup>2</sup> @ 1030nm, 200fs, 1 pulse (typical)  
0.10 J/cm<sup>2</sup> @ 1030nm, 200fs, 100Hz, 1000 pulses (typical)

**GDD Specification:**

0 ±30 fs<sup>2</sup> @ 800 - 1150nm

**Irregularity (P-V) @ 632.8nm:**

0.15λ

**Radius of Curvature (mm):**

200.00

**Power (P-V) @ 632.8nm:**

2 Rings

## Regulatory Compliance

**Certificate of Conformance:**

[View](#)

## 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](#).

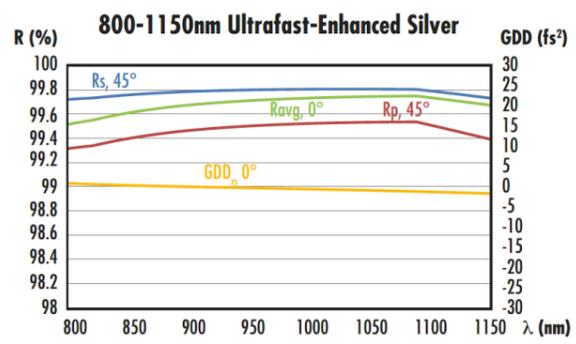
## Product Details

- 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<sup>2</sup>
- 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

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