

TECHSPEC<sup>®</sup>

600-1000nm, 50.8mm Dia. x 150mm EFL, Ultrafast-Enhanced Silver Concave Laser Mirror



TECHSPEC<sup>®</sup> Ultrafast-Enhanced Silver Concave Laser Mirrors

Stock **#13-070** **2 In Stock**

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1

+

£220<sup>.80</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £220.80 each                  |
| Qty 6-9        | £196.00 each                  |
| Qty 10+        | £173.60 each                  |
| Need More?     | <a href="#">Request Quote</a> |

 Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Concave Mirror

Type:

| Physical & Mechanical Properties                                                                                                |                                                       |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 50.80 +0.00/-0.20                                                                                                               | Diameter (mm):                                        |
| 80                                                                                                                              | Clear Aperture (%):                                   |
| 10.00 ±0.20                                                                                                                     | Edge Thickness ET (mm):                               |
| Optical Properties                                                                                                              |                                                       |
| Fused Silica (Corning 7980)                                                                                                     | Substrate: <input type="checkbox"/>                   |
| 20-10                                                                                                                           | Surface Quality:                                      |
| 150.00                                                                                                                          | Effective Focal Length EFL (mm):                      |
| 300.00                                                                                                                          | Radius of Curvature (mm):                             |
| Ultrafast-Enhanced Silver (600-1000nm)                                                                                          | Coating:                                              |
| R <sub>avg</sub> >99% @ 600 - 1000nm, 0°<br>R <sub>s</sub> >99% @ 540 - 1000nm, 45°<br>R <sub>p</sub> >98.5% @ 730 - 870nm, 45° | Coating Specification:                                |
| 0 ±20fs <sup>2</sup> @ 600 - 1050nm                                                                                             | GDD Specification:                                    |
| Ultrafast-Enhanced Silver                                                                                                       | Coating Type:                                         |
| 600 - 1000                                                                                                                      | Wavelength Range (nm):                                |
| 0.15λ                                                                                                                           | Irregularity (P-V) @ 632.8nm:                         |
| 0.3 J/cm <sup>2</sup> @ 800nm, 48fs, 1 pulse (typical)<br>0.16 J/cm <sup>2</sup> @ 800nm, 48fs, 100Hz, 1000 pulses (typical)    | Damage Threshold, Reference: <input type="checkbox"/> |
| Regulatory Compliance                                                                                                           |                                                       |
| View                                                                                                                            | Certificate of Conformance:                           |

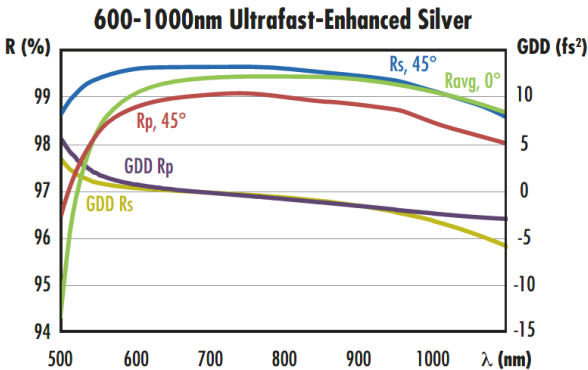
## PRODUCT DETAILS

- 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 ±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



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](#).

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