

TECHSPEC[®] 800-1150nm, 50mm Diameter Ultrafast-Enhanced Silver Coated, λ /10 Mirror



Stock #22-021 4 In Stock

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1

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C\$327^{.60}

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Volume Pricing	
Qty 1-5	C\$327.60 each
Qty 6-25	C\$261.80 each
Qty 26-49	C\$245.00 each
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Product Downloads

General	
Flat Mirror	Type:
Physical & Mechanical Properties	
50.00 +0.00/-0.20	Diameter (mm):
Commercial Polish	Back Surface:

Dimensional Tolerance (mm):	
+0.00/-0.20	
Bevel:	
Protective as needed	
Clear Aperture (%):	
90	
Edges:	
Ground	
Parallelism (arcsec):	
30	
Thickness (mm):	
5.00 ±0.20	

Optical Properties

Surface Flatness (P-V):	
λ/10	
Substrate: ☐	
Fused Silica (Corning 7980)	
Surface Quality:	
20-10	
Coating Specification:	
R _{avg} >99% @ 850 - 1150nm, 0°	
R _s >99% @ 800 - 1150nm, 45°	
R _p >98.5% @ ~850 - 1100nm, 45°	
Coating:	
Ultrafast-Enhanced Silver (800-1150nm)	
Coating Type:	
Ultrafast-Enhanced Silver	
Wavelength Range (μm):	
0.80 - 1.15	
Wavelength Range (nm):	
800 - 1150	
GDD Specification:	
0 ±30fs ² @ 800 - 1150nm	
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	

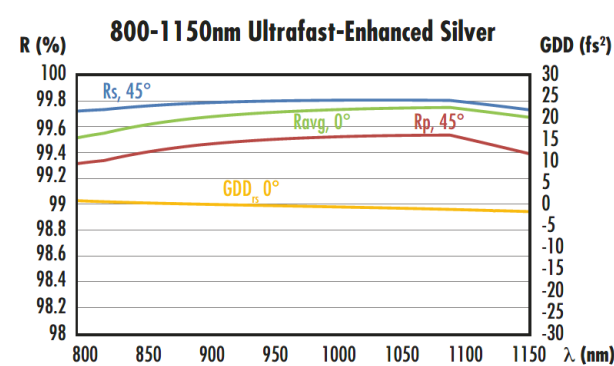
Product Details

- Precision Fused Silica Substrate
- Variety of Sizes and Coating Options Available
- Low Coefficient of Thermal Expansion

TECHSPEC® λ/10 First Surface Mirrors are ideal for demanding beam steering and reflection applications in the visible and IR spectra. With a precision fused silica substrate, the mirrors feature a low coefficient of thermal expansion while being highly durable and resistant to abrasion. These precision mirrors are available in a variety of sizes and coating options, including enhanced aluminum, protected gold, and protected silver. These coatings allow for improved handling of the component, increased durability of the metal coating, and protection from oxidation with little impact to the performance on the metal coating. TECHSPEC® λ/10 First Surface Mirrors can be utilized in various optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms.

Note: Surface flatness is measured before coating.

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](#).

Compatible Mounts

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