

TECHSPEC® 12.5mm Diameter Silver Coated, λ/10 Mirror



Stock #84-439 3-4 DAYS

⊖ 1 ⊕ €95⁰⁰

ADD TO CART

Qty 1-5

€95,00

Qty 6+

€76,00

Volume Pricing

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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads



SPECIFICATIONS

General

Type:
Flat Mirror

Physical & Mechanical Properties

Diameter (mm):
12.50 +0.00/-0.20

Back Surface:
Commercial Polish

Dimensional Tolerance (mm):
+0.0/-0.20

Bevel:
Protective bevel as needed

Clear Aperture (%):
90

Edges:
Ground

Parallelism (arcsec):
30

Thickness (mm):
3.00 ±0.20

Optical Properties

Surface Flatness (P-V):
λ/10

Substrate:
[Fused Silica](#) (Corning 7980)

Surface Quality:
20-10

Coating Specification:
R_{avg} >98% @ 450 - 2000nm
R_{avg} >98% @ 2000 - 10,000nm

Coating:
Protected Silver (450-10000nm)

Coating Type:
Metal

Wavelength Range (μm):
0.45 - 10

Wavelength Range (nm):
450 - 10000

Damage Threshold, Reference:
0.5 J/cm² @ 532nm & 1064nm, 10ns

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

REACH 241:
[Compliant](#)

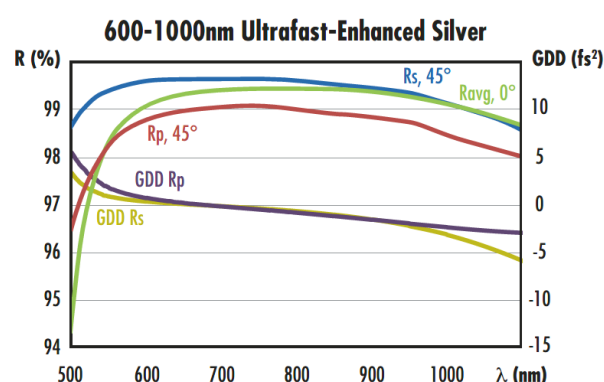
PRODUCT DETAILS

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

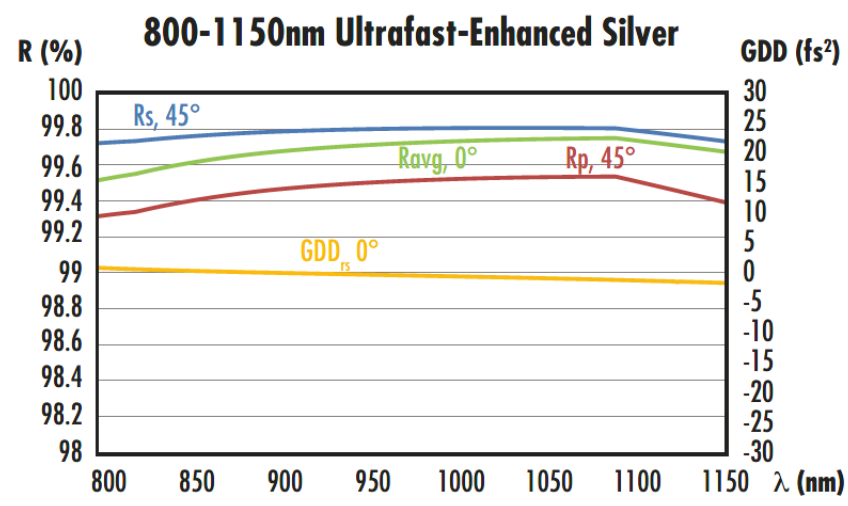
TECHSPEC® λ/10 First Surface Mirrors are ideal for demanding beam steering and reflection applications in the visible and IR spectra. With a precision fused silica substrate, the mirrors feature a low coefficient of thermal expansion while being highly durable and resistant to abrasion. These precision 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



600-1000nm Ultrafast-Enhanced Silver



800-1150nm Ultrafast-Enhanced Silver

COATING CURVES

COMPATIBLE MOUNTS