

TECHSPEC[®] 50.8mm Diameter Protected Silver Coated, λ/10 Mirror



Stock #39-222

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₹15,959

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Volume Pricing	
Qty 1-5	₹15,959 each
Qty 6-25	₹12,767 each
Qty 26-49	₹11,989 each
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SPECIFICATIONS

General

Type:
Flat Mirror

Physical & Mechanical Properties

50.80 +0.00/-0.20	Diameter (mm):
Commercial Polish	Back Surface:
+0.0/-0.10	Dimensional Tolerance (mm):
Protective as needed	Bevel:
90	Clear Aperture (%):
Ground	Edges:
<180	Parallelism (arcsec):
9.53 ±0.20	Thickness (mm):

Optical Properties

N10	Surface Flatness (P-V):
Fused Silica (Corning 7980)	Substrate: ☐
20-10	Surface Quality:
R _{avg} >98% @ 450 - 800nm R _{avg} >98.5% @ 2000 - 10,000nm	Coating Specification:
Protected Silver (450-10000nm)	Coating:
Metal	Coating Type:
0.45 - 10	Wavelength Range (µm):
450 - 10000	Wavelength Range (nm):
0.5 J/cm² @ 532nm & 1064nm, 10ns	Damage Threshold, Reference: ☐

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

PRODUCT DETAILS

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

TECHSPEC® N10 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® N10 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.

COATING CURVES

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](#).

