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TECHSPEC[®] 50mm Dia. Protected Silver Coated, *N*/10 ZERODUR[®] Mirror

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Stock **#39-916** [CONTACT US](#)

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+

A\$414⁻⁴⁰

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Volume Pricing	
Qty 1-5	A\$414.40 each
Qty 6-25	A\$332.80 each
Qty 26-49	A\$312.00 each
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Product Downloads

General	
Flat Mirror	Type:
Physical & Mechanical Properties	
50.00 +0.00/-0.20	Diameter (mm):
5.00 ±0.20	Thickness (mm):

Commercial Polish	Back Surface:
Protective as needed	Bevel:
90	Clear Aperture (%):
Ground	Edges:
30	Parallelism (arcsec):

Optical Properties

Metal	Coating Type:
Protected Silver (450-10000nm)	Coating:
$\lambda/10$	Surface Flatness (P-V):
450 - 10000	Wavelength Range (nm):

	Substrate: 
R _{avg} >98% @450 - 800nm R _{avg} >98.5% @2000 - 10,000nm	Coating Specification:
20-10	Surface Quality:
0.5 J/cm ² @532nm & 1064nm, 10ns	Damage Threshold, Reference: 

Material Properties

0.1	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
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Regulatory Compliance

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

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

- Precision ZERODUR® Substrates
- $\lambda/10$ Flatness
- Low Coefficient of Thermal Expansion

TECHSPEC® ZERODUR® $\lambda/10$ First Surface Mirrors are well suited for applications where temperature fluctuation is a concern. The ZERODUR® substrates have a coefficient of thermal expansion (CTE) of $\pm 0.10 \times 10^{-6}/^{\circ}\text{C}$, which is an order of magnitude lower than most glass types. The low CTE allows these mirrors to have a consistent reflected wavefront, even when exposed to environments with varying temperature or illumination sources with changing intensity. TECHSPEC® ZERODUR® $\lambda/10$ First Surface Mirrors feature precision polished substrates with $\lambda/10$ flatness and 20-10 surface quality. Multiple metallic and enhanced metallic coating options are available, allowing for these mirrors to be easily integrated into applications in both the visible and infrared spectrum.

Note: Surface flatness is measured before coating.

Coating Curves

Compatible Mounts

