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TECHSPEC® 100 x 100mm Protected Gold Coated, λ/10 ZERODUR® Mirror

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TECHSPEC ZERODUR λ/10 First Surface Mirrors

Stock **#17-807** **2 In Stock**

- 1 + **S$1,288**.00

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Volume Pricing	
Qty 1-5	**S$1,288.00** each
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Product Downloads

General

Type:

Flat Mirror

Physical & Mechanical Properties

Back Surface:

Commercial Polish

Dimensions (mm):

100.0 x 100.0 +0.00/-0.20

Bevel:
Protective as needed

Clear Aperture (%):
90

Edges:
Ground

Parallelism (arcsec):
30

Thickness (mm):
10.00 ±0.20

Length (mm):
100.00

Width (mm):
100.00

Optical Properties

Surface Flatness (P-V):
λ/10

Substrate:
ZERODUR®

Surface Quality:
20-10

Coating Specification:
R_{avg} >96% @ 700 - 2000nm
R_{avg} >96% @ 2000 - 10,000nm

Coating:
Protected Gold (700-10000nm)

Coating Type:
Metal

Wavelength Range (nm):
700 - 10000

Damage Threshold, Reference:
0.8 J/cm^2 @ 1064nm, 10ns

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
0.1

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Product Details

- Precision ZERODUR® Substrates
- λ/10 Flatness
- Low Coefficient of Thermal Expansion

TECHSPEC® ZERODUR® λ/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 ±0.10 x 10^{-6}/°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® λ/10 First Surface Mirrors feature precision polished substrates with λ/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.

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.**