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## TECHSPEC® 75mm Dia. Protected Gold Coated, $\lambda/10$ ZERODUR® Mirror

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TECHSPEC ZERODUR  $\lambda/10$  First Surface Mirrors

Stock #17-795 [CONTACT US](#)

⊖ 1 ⊕ A\$1,056<sup>00</sup>

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Volume Pricing	
Qty 1-5	A\$1,056.00 each
Qty 6-25	A\$848.00 each
Qty 26-49	A\$795.20 each
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### Product Downloads

### General

Flat Mirror **Type:**

### Physical & Mechanical Properties

75.00 +0.00/-0.20 **Diameter (mm):**

**Back Surface:**

Commercial Polish

Protective as needed **Bevel:**

90 **Clear Aperture (%):**

Ground **Edges:**

30 **Parallelism (arcsec):**

7.50 ±0.20 **Thickness (mm):**

## Optical Properties

λ/10 **Surface Flatness (P-V):**

ZERODUR® **Substrate:**

20-10 **Surface Quality:**

**Coating Specification:**  
R<sub>avg</sub> >96% @ 700 - 2000nm  
R<sub>avg</sub> >96% @ 2000 - 10,000nm

Protected Gold (700-10000nm) **Coating:**

Metal **Coating Type:**

700 - 10000 **Wavelength Range (nm):**

0.8 J/cm<sup>2</sup> @ 1064nm, 10ns **Damage Threshold, Reference:**

## Material Properties

0.1 **Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):**

## Regulatory Compliance

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **Reach 247:**

## 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<sup>-6</sup>/°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](#).