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## TECHSPEC® 40 x 40mm Protected Silver Coated, $\lambda/10$ ZERODUR® Mirror

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TECHSPEC ZERODUR  $\lambda/10$  First Surface Mirrors

Stock **#17-786** **1 In Stock**

⊖ 1 ⊕ **A\$380<sup>00</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-5	<b>A\$380.80</b> each
Qty 6-25	<b>A\$304.00</b> each
Qty 26-49	<b>A\$286.40</b> each
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### Product Downloads

### General

Flat Mirror **Type:**

### Physical & Mechanical Properties

5.00 ±0.20 **Thickness (mm):**

**Dimensions (mm):**

40.0 x 40.0 +0.00/-0.20

Commercial Polish **Back Surface:**

Protective as needed **Bevel:**

90 **Clear Aperture (%):**

Ground **Edges:**

40.00 **Length (mm):**

40.00 **Width (mm):**

30 **Parallelism (arcsec):**

## Optical Properties

Metal **Coating Type:**

Protected Silver (450-10000nm) **Coating:**

$\lambda$ 10 **Surface Flatness (P-V):**

450 - 10000 **Wavelength Range (nm):**

ZERODUR® **Substrate:**

$R_{avg} > 98\%$  @ 450 - 800nm  
 $R_{avg} > 98.5\%$  @ 2000 - 10,000nm **Coating Specification:**

20-10 **Surface Quality:**

0.5 J/cm<sup>2</sup> @ 532nm & 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
- $\lambda$ 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

## 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](#).

