

TECHSPEC® 40 x 40mm Enhanced Aluminum Coated, λ/10 ZERODUR® Mirror

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TECHSPEC ZERODUR λ/10 First Surface Mirrors

Stock **#17-783** **2 In Stock**

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S\$267<sup>34</sup>

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| Volume Pricing |                               |
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| Qty 1-5        | S\$267.34 each                |
| Qty 6-25       | S\$213.57 each                |
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SPECIFICATIONS

General

Flat Mirror

Type:

| Physical & Mechanical Properties    |                                                              |
|-------------------------------------|--------------------------------------------------------------|
| Commercial Polish                   | Back Surface:                                                |
| 40.0 x 40.0 +0.00/-0.20             | Dimensions (mm):                                             |
| Protective as needed                | Bevel:                                                       |
| 90                                  | Clear Aperture (%):                                          |
| Ground                              | Edges:                                                       |
| 30                                  | Parallelism (arcsec):                                        |
| 5.00 ±0.20                          | Thickness (mm):                                              |
| 40.00                               | Length (mm):                                                 |
| 40.00                               | Width (mm):                                                  |
| Optical Properties                  |                                                              |
| λ/10                                | Surface Flatness (P-V):                                      |
| ZERODUR®                            | Substrate: <input type="checkbox"/>                          |
| 20-10                               | Surface Quality:                                             |
| R <sub>avg</sub> >95% @ 450 - 650nm | Coating Specification:                                       |
| Enhanced Aluminum (450-650nm)       | Coating:                                                     |
| Metal                               | Coating Type:                                                |
| 450 - 650                           | Wavelength Range (nm):                                       |
| 0.2 J/cm² @ 532nm, 10ns             | Damage Threshold, Reference: <input type="checkbox"/>        |
| 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.

## 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](#).

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