

TECHSPEC<sup>®</sup> 15 x 15mm Enhanced Aluminum Coated,  $\lambda$ /10 ZERODUR<sup>®</sup> Mirror

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Stock #39-849 3 In Stock

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+

£84<sup>.80</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £84.80 each                   |
| Qty 6-25       | £67.60 each                   |
| Qty 26-49      | £63.60 each                   |
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Product Downloads

General

Type:

Flat Mirror

Physical & Mechanical Properties

Back Surface:

Commercial Polish

Dimensions (mm):

|                         |                       |
|-------------------------|-----------------------|
| 15.0 x 15.0 +0.00/-0.20 |                       |
| Protective as needed    | Bevel:                |
| 90                      | Clear Aperture (%):   |
| Ground                  | Edges:                |
| 30                      | Parallelism (arcsec): |
| 3.00 ±0.20              | Thickness (mm):       |
| 15.00                   | Length (mm):          |
| 15.00                   | Width (mm):           |

|                                    |                                |
|------------------------------------|--------------------------------|
| Optical Properties                 |                                |
| λ/10                               | Surface Flatness (P-V):        |
| ZERODUR®                           | Substrate: □                   |
| 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/cm <sup>2</sup> @532nm, 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.

## 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](#).

Compatible Mounts

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