

TECHSPEC® 100 x 100mm Protected Silver Coated,  $\lambda$ /10 ZERODUR® Mirror

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TECHSPEC ZERODUR  $\lambda$ /10 First Surface Mirrors

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1

+

₹58,777

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SPECIFICATIONS

General

Flat Mirror

Type:

| Physical & Mechanical Properties                                                    |                                                              |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Commercial Polish                                                                   | Back Surface:                                                |
| 100.0 x 100.0 +0.00/-0.20                                                           | Dimensions (mm):                                             |
| Protective bevel as needed                                                          | Bevel:                                                       |
| 90                                                                                  | Clear Aperture (%):                                          |
| Ground                                                                              | Edges:                                                       |
| 30                                                                                  | Parallelism (arcsec):                                        |
| 10.00 ±0.20                                                                         | Thickness (mm):                                              |
| 100.00                                                                              | Length (mm):                                                 |
| 100.00                                                                              | Width (mm):                                                  |
| Optical Properties                                                                  |                                                              |
| λ/10                                                                                | Surface Flatness (P-V):                                      |
|  | Substrate: <input type="checkbox"/>                          |
| 20-10                                                                               | Surface Quality:                                             |
| R <sub>avg</sub> >98% @ 450 - 2000nm<br>R <sub>avg</sub> >98% @ 2000 - 10,000nm     | Coating Specification:                                       |
| Protected Silver (450-10000nm)                                                      | Coating:                                                     |
| Metal                                                                               | Coating Type:                                                |
| 450 - 10000                                                                         | Wavelength Range (nm):                                       |
| 0.5 J/cm <sup>2</sup> @ 532nm & 1064nm, 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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