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TECHSPEC<sup>®</sup> 75 x 75mm UV-Enhanced Aluminum Coated,  $\lambda$ /10 ZERODUR<sup>®</sup> Mirror

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TECHSPEC ZERODUR  $\lambda$ /10 First Surface Mirrors

Stock **#17-798** 1 In Stock

-

1

+

€530<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €530,00 each                  |
| Qty 6-25       | €426,00 each                  |
| Qty 26-49      | €399,00 each                  |
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Flat Mirror

Type:

Physical & Mechanical Properties

Commercial Polish

Back Surface:

|                         |                       |
|-------------------------|-----------------------|
| 75.0 x 75.0 +0.00/-0.20 | Dimensions (mm):      |
| Protective as needed    | Bevel:                |
| 90                      | Clear Aperture (%):   |
| Ground                  | Edges:                |
| 30                      | Parallelism (arcsec): |
| 7.50 ±0.20              | Thickness (mm):       |
| 75.00                   | Length (mm):          |
| 75.00                   | Width (mm):           |

Optical Properties

|                                                                                   |                                                                                                                  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| $\lambda/10$                                                                      | Surface Flatness (P-V):                                                                                          |
|  | Substrate:                      |
| 20-10                                                                             | Surface Quality:                                                                                                 |
| $R_{avg} > 89\%$ @ 250 - 450nm<br>$R_{avg} > 85\%$ @ 250 - 700nm                  | Coating Specification:                                                                                           |
| Enhanced Aluminum (250-700nm)                                                     | Coating:                                                                                                         |
| Metal                                                                             | Coating Type:                                                                                                    |
| 250 - 700                                                                         | Wavelength Range (nm):                                                                                           |
| 0.5 J/cm <sup>2</sup> @ 355nm, 10ns                                               | Damage Threshold, Reference:  |

Material Properties

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

Regulatory Compliance

|                                                                                     |                             |
|-------------------------------------------------------------------------------------|-----------------------------|
|  | RoHS 2015:                  |
|  | Certificate of Conformance: |
|  | 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.

## 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](#).