

[See all 96 Products in Family](#)

TECHSPEC<sup>®</sup> 40 x 40mm UV-Enhanced Aluminum Coated,  $\lambda/10$  ZERODUR<sup>®</sup> Mirror

See More by [SCHOTT Optical Components](#)



TECHSPEC ZERODUR  $\lambda/10$  First Surface Mirrors

Stock **#17-784** 2 In Stock

-

1

+

A\$318<sup>.40</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$318.40 each                |
| Qty 6-25       | A\$254.40 each                |
| Qty 26-49      | A\$240.00 each                |
| Need More?     | <a href="#">Request Quote</a> |

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:                                                                                                    |
| Enhanced Aluminum (250-700nm)                                                       | Coating:                                                                                                         |
| $\lambda/10$                                                                        | Surface Flatness (P-V):                                                                                          |
| 250 - 700                                                                           | Wavelength Range (nm):                                                                                           |
|  | Substrate:                    |
| R <sub>avg</sub> >89% @ 250 - 450nm<br>R <sub>avg</sub> >85% @ 250 - 700nm          | Coating Specification:                                                                                           |
| 20-10                                                                               | Surface Quality:                                                                                                 |
| 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     |                             |
| <a href="#">Compliant</a> | RoHS 2015:                  |
| <a href="#">View</a>      | Certificate of Conformance: |
| <a href="#">Compliant</a> | Reach 247:                  |

## 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](#).

## 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.