

TECHSPEC<sup>®</sup> 10 x 10mm Protected Gold Coated,  $\lambda$ /10 ZERODUR<sup>®</sup> Mirror

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Stock #39-861 2 In Stock

-

1

+

€127<sup>00</sup>

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| Qty 1-5        | €127,00 each                  |
| Qty 6-25       | €101,00 each                  |
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Product Downloads

General

Type:

Flat Mirror

Physical & Mechanical Properties

Back Surface:

Commercial Polish

Dimensions (mm):

|                         |                       |
|-------------------------|-----------------------|
| 10.0 x 10.0 +0.00/-0.20 |                       |
| Protective as needed    | Bevel:                |
| 90                      | Clear Aperture (%):   |
| Ground                  | Edges:                |
| 30                      | Parallelism (arcsec): |
| 2.00 ±0.20              | Thickness (mm):       |
| 10.00                   | Length (mm):          |
| 10.00                   | Width (mm):           |

|                                                                                |                                                       |
|--------------------------------------------------------------------------------|-------------------------------------------------------|
| Optical Properties                                                             |                                                       |
| N10                                                                            | Surface Flatness (P-V):                               |
| ZERODUR®                                                                       | Substrate: <input type="checkbox"/>                   |
| 20-10                                                                          | Surface Quality:                                      |
| R <sub>avg</sub> >96% @ 700 - 2000nm<br>R <sub>avg</sub> >96% @2000 - 10,000nm | Coating Specification:                                |
| Protected Gold (700-10000nm)                                                   | Coating:                                              |
| Metal                                                                          | Coating Type:                                         |
| 700 - 10000                                                                    | Wavelength Range (nm):                                |
| 0.8 J/cm <sup>2</sup> @ 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
- N10 Flatness
- Low Coefficient of Thermal Expansion

TECHSPEC® ZERODUR® N10 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® N10 First Surface Mirrors feature precision polished substrates with N10 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](#).

## Compatible Mounts

