

All Products / Optics / Optical Mirrors / ZERODUR® λ/10 First Surface Mirrors

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TECHSPEC® 5 x 5mm

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TECHSPEC ZERODUR λ/10 First Surface Mirrors

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

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Stock #17-724 **1 In Stock**

1

€127⁰⁰

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Volume Pricing

Qty 1-5	€127,00 each
Qty 6-25	€101,00 each
Qty 26-49	€95,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

General

Type: Flat Mirror

Physical & Mechanical Properties

Thickness (mm): 2.00 ±0.20

Dimensions (mm): 5.0 x 5.0 +0.00/-0.20

Back Surface: Commercial Polish

Bevel: Protective as needed

Clear Aperture (%): 90

Edges: Ground

Length (mm): 5.00

Width (mm): 5.00

Parallelism (arcsec): 30

Optical Properties

Coating Type: Metal

Coating: Protected Gold (700-10000nm)

Surface Flatness (P-V): λ/10

Wavelength Range (nm): 700 - 10000

Substrate: [ZERODUR®](#)

Coating Specification: R_{avg} >96% @ 700 - 2000nm
R_{avg} >96% @ 2000 - 10,000nm

Surface Quality: 20-10

Damage Threshold, Reference: 0.8 J/cm² @ 1064nm, 10ns

Material Properties

Coefficient of Thermal Expansion CTE ($10^{-6}/^{\circ}\text{C}$): 0.1

Regulatory Compliance

RoHS 2015: **Compliant**

Reach 247: **Compliant**

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Need different specs or modifications?

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](#).

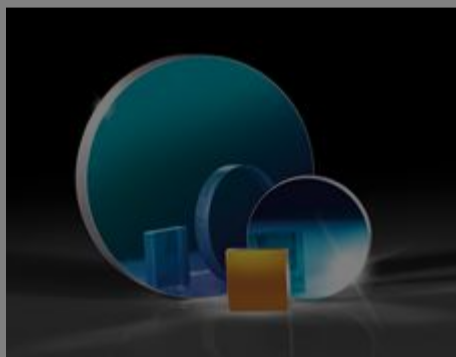
Product Details

- Precision ZERODUR® Substrates
- $\lambda/10$ Flatness
- Low Coefficient of Thermal Expansion

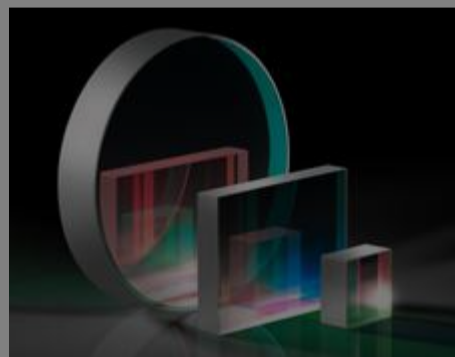
TECHSPEC® ZERODUR® $\lambda/10$ First Surface Mirrors are well suited for applications where temperature fluctuation is a concern. The ZERODUR® substrates have a coefficient of thermal expansion (CTE) of $\pm 0.10 \times 10^{-6}/^{\circ}\text{C}$, which is an order of magnitude lower than most glass 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.

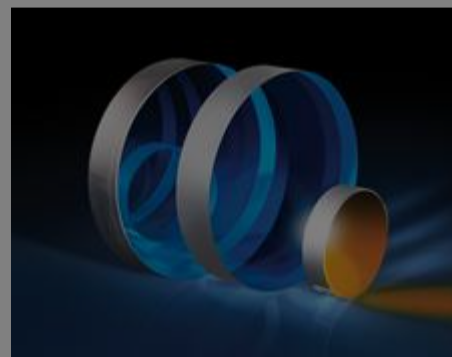
Related Products



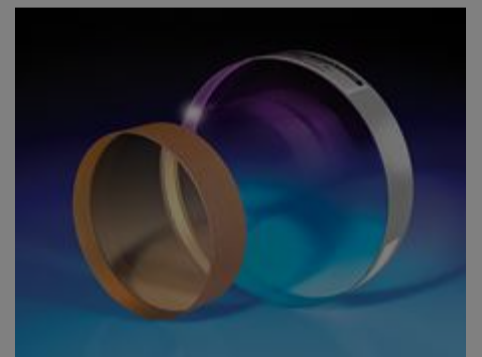
$\lambda/10$ First Surface Mirrors



Broadband Dielectric $\lambda/10$ Mirrors

















Precision Optical Flat Mirrors



Single Surface Optical Flats

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	1.5" Reverse Angle Mirror Mount	Adjustable - Tip-Tilt		#37-922	€86,00 Request Quote	12 In Stock <input type="text" value="1"/> 
MORE+ 	25mm sq - Rectangular Bar Clamp	Fixed		#54-994	€108,00 Request Quote	8 In Stock <input type="text" value="1"/> 
MORE+ 	60mm sq - Rectangular Bar Clamp	Fixed		#54-995	€126,00 Request Quote	20+ In Stock <input type="text" value="1"/> 

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	Standard Model, Threaded Base - Metric Mirror Mount				€140,00	20+ In Stock <input type="text" value="1"/> 
MORE+ 	Standard Model, Slotted Base - Metric Mirror Mount					20+ In Stock <input type="text" value="1"/> 
MORE+ 	Top-Screw Model, Threaded Base - Metric Mirror Mount	Adjustable - Tip-Tilt		#56-343	€186,00 Request Quote	4 In Stock <input type="text" value="1"/> 
MORE+ 	Top-Screw Model, Slotted Base - Metric Mirror Mount	Adjustable - Tip-Tilt		#56-344	€186,00 Request Quote	20+ In Stock <input type="text" value="1"/> 

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Media Type

- Application Note
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Using IR Spectroscopy for Counterfeit Drug Detection

APPLICATION NOTE

Metallic Mirror Coatings

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Optical Mirrors Review

FAQ

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