

**TECHSPEC®**

# 20mm Dia. 400 - 750nm Broadband λ/10 ZERODUR® Mirror

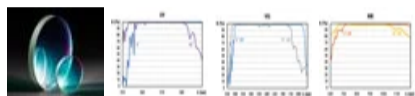


Stock #24-025 **10 In Stock**

1

C\$226.<sup>80</sup>

**ADD TO CART**



Volume Pricing	
Qty 1-5	C\$226.80 each
Qty 6-25	C\$180.60 each
Qty 26-49	C\$169.40 each
Need More?	<a href="#">Request Quote</a>

Product Downloads	
STEP:step	Curve
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	<a href="#">Download All</a>

## General

**Type:** Flat Mirror

## Physical & Mechanical Properties

<b>Diameter (mm):</b> 20.00 +0.00/-0.20	<b>Thickness (mm):</b> 3.00 ±0.20
<b>Back Surface:</b> Commercial Polish	<b>Bevel:</b> Protective as needed
<b>Clear Aperture (%):</b> 90	<b>Edges:</b> Ground
<b>Parallelism (arcsec):</b> 30	

## Optical Properties

<b>Coating Type:</b> Dielectric	<b>Coating:</b> Dielectric Mirror (400-750nm)
<b>Surface Flatness (P-V):</b> λ/10	<b>Wavelength Range (nm):</b> 400 - 750
<b>Substrate:</b> <a href="#">ZERODUR®</a>	<b>Angle of Incidence (°):</b> 0-45
<b>Coating Specification:</b> R <sub>avg</sub> >98% @ 400 - 750nm (0 - 45°) R <sub>avg</sub> >99% @ 400 - 750nm (0°)	<b>Surface Quality:</b> 20-10
<b>Damage Threshold, By Design:</b> 0.5 J/cm <sup>2</sup> @ 532nm, 20ns, 20Hz	

## Material Properties

**Coefficient of Thermal** 0.1

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

## Regulatory Compliance

Certificate of Conformance: [View](#)

## 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

- ZERODUR® Substrates Provide Near Zero Thermal Expansion
- Enhanced Reflectivity and LDT over Metallic Coatings
- UV, Visible, and NIR Reflective Coatings Designed for 0-45° AOI
- **Metallic Coated ZERODUR®** Mirrors Also Available

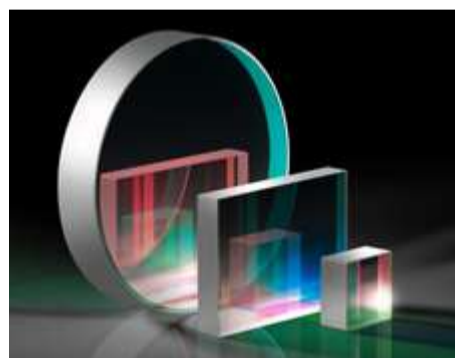
TECHSPEC® Broadband Dielectric ZERODUR®  $\lambda/10$  Mirrors combine high reflectivity over broad wavelength ranges with a near zero coefficient of thermal expansion (CTE) making them ideal for laser applications where temperature fluctuations could impact optical performance. The ZERODUR® substrates 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, including fused silica. Featuring coatings designed for 0-45° AOI and >99% average reflectivity, these dielectric coated mirrors provide higher reflectivity than metal coated mirrors, increasing system throughput by minimizing energy loss. TECHSPEC® Broadband Dielectric ZERODUR®  $\lambda/10$  Mirrors are ideal for beam steering and beam folding applications from the UV to NIR, including [fluorescence microscopy](#), flow cytometry, and [laser communications](#).

## Technical Information

## Related Products



ZERODUR®  $\lambda/10$  First Surface Mirrors



Broadband Dielectric  $\lambda/10$  Mirrors

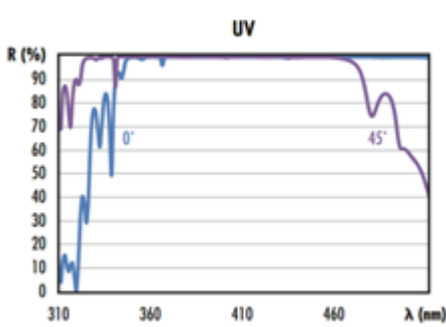


Laser Sources



Kinematic Optical Mirror Mounts

## Frequently Purchased Together



#24-023 - 15mm Dia. 400  
- 750nm Broadband  $\lambda/10$   
ZERODUR® Mirror  
C\$203.00

## Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	20.0mm Optic Dia., Optic Mount	Fixed		#64-559	C\$45.85 <a href="#">Request Quote</a>	14 In Stock <input type="text" value="1"/>
	2.0 - 35.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-668	C\$88.20 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	C\$116.20 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	C\$142.80 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	C\$148.40 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	C\$151.20 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>
	19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	C\$159.60 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	C\$162.40 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	C\$168.00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	C\$219.80 <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/>
	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	C\$574.00 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>

# Resources

## Media Type

- Application Note
- Technical Tool
- FAQ
- Glossary
- Video
- Trending in Optics
- Published Article
- Scientific Paper

### APPLICATION NOTE

An Introduction to Optical Coatings

### TECHNICAL TOOL

Gaussian Beams Calculator

### CASE STUDIES

Laser Optics for Eye Surgery

### TRENDING IN OPTICS

Increasing Challenges for Sourcing Laser Optics...

### CASE STUDIES

Using IR Spectroscopy for Counterfeit Drug Detection

### APPLICATION NOTE

Effects of Laser Mirror Surface Flatness

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