

# TECHSPEC® 15mm Dia. Protected Gold Coated, λ/10 ZERODUR® Mirror

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Stock #39-862 3-4 DAYS

⊖ 1 ⊕ £106<sup>25</sup>

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Qty 1-5

£106.25

Qty 6+

£85.00

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**!** Prices shown are exclusive of VAT/local taxes

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## SPECIFICATIONS

### General

Type:  
Flat Mirror

## Physical & Mechanical Properties

**Diameter (mm):**  
15.00 +0.00/-0.20

**Back Surface:**  
Commercial Polish

**Bevel:**  
Protective bevel as needed

**Clear Aperture (%):**  
90

**Edges:**  
Ground

**Parallelism (arcsec):**  
30

**Thickness (mm):**  
3.00 ±0.20

## Optical Properties

**Surface Flatness (P-V):**  
λ/10

**Substrate:**   
[ZERODUR®](#)

**Surface Quality:**  
20-10

**Coating Specification:**  
R<sub>avg</sub> >96% @ 700 - 2000nm  
R<sub>avg</sub> >96% @ 2000 - 10,000nm

**Coating:**  
Protected Gold (700-10000nm)

**Coating Type:**  
Metal

**Wavelength Range (nm):**  
700 - 10000

**Damage Threshold, Reference:**   
0.8 J/cm<sup>2</sup> @ 1064nm, 10ns

## Material Properties

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

## Regulatory Compliance

**RoHS 2015:**  
[Compliant](#)

**Certificate of Conformance:**  
[View](#)

**REACH 241:**  
[Compliant](#)

## PRODUCT DETAILS

- Precision ZERODUR® Substrates
- λ/10 Flatness
- Low Coefficient of Thermal Expansion

TECHSPEC® ZERODUR® λ/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 ±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® λ/10 First Surface Mirrors feature precision polished substrates with λ/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.

## COMPATIBLE MOUNTS