

TECHSPEC®

40 x 40mm Protected Gold Coated, *N*/10 ZERODUR® Mirror

See More by [SCHOTT Optical Components](#)



TECHSPEC ZERODUR *N*/10 First Surface Mirrors

Stock **#17-785** **1 In Stock**

-

1

+

€263^{.00}

ADD TO CART

Volume Pricing	
Qty 1-5	€263,00 each
Qty 6-25	€210,00 each
Qty 26-49	€197,00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Flat Mirror

Physical & Mechanical Properties

Thickness (mm):

5.00 ±0.20

40.0 x 40.0 +0.00/-0.20	Dimensions (mm):
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:
Protected Gold (700-10000nm)	Coating:
λ/10	Surface Flatness (P-V):
700 - 10000	Wavelength Range (nm):
ZERODUR®	Substrate: □
R _{avg} >96% @ 700 - 2000nm R _{avg} >96% @ 2000 - 10,000nm	Coating Specification:
20-10	Surface Quality:
0.8 J/cm ² @ 1064nm, 10ns	Damage Threshold, Reference: □

Material Properties	
0.1	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	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
- 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 10⁻⁶/°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.

Note: Surface flatness is measured before coating.