

TECHSPEC[®] 1" Dia. Protected Silver, λ /20 Flat ZERODUR[®]



Stock **#43-412-577** 1 In Stock

-

1

+

A\$400⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	A\$400.00 each
Qty 11-25	A\$356.80 each
Need More?	Request Quote

Product Downloads

General	
Flatness is specified as Peak to Valley	Note:
Flat Mirror	Type:
Physical & Mechanical Properties	
25.40 +0.0/-1.02	Diameter (mm):

	Back Surface:
Commercial Polish	
	Diameter Tolerance (inches):
+0.0/-0.04	
	Clear Aperture CA (mm):
22.86	

	Thickness (mm):
12.70 ±1.5	

Optical Properties

	Surface Flatness (P-V):
λ/20	
	Substrate:
ZERODUR®	

	Surface Quality:
60-40	
	Coating Specification:
R _{avg} >98% @450 - 2000nm R _{avg} >98% @2000 - 10,000nm	

	Coating:
Protected Silver (450-10000nm)	
	Coating Type:
Metal	

	Wavelength Range (μm):
0.45 - 10	
	Wavelength Range (nm):
450 - 10000	

	Damage Threshold, Reference:
0.5 J/cm ² @532nm & 1064nm, 10ns	

Regulatory Compliance

	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	

	Reach 247:
Compliant	

Product Details

- Fused Silica and ZERODUR® Substrates
- λ/10 and λ/20 Surface Flatness
- Variety of Coating Options Offered

TECHSPEC® Precision Optical Flat Mirrors are ideal for various applications, including interferometry, imaging systems, laser applications, optical path folding, and autocollimation. These mirrors are available in multiple coating and substrate options and surface flatness options of λ/10 and λ/20. The first substrate option ZERODUR®, a yellow-tinted glass ceramic, features an extremely low coefficient of thermal expansion. TECHSPEC® Precision Optical Flat Mirrors are ideal for applications where temperature fluctuation is a concern using the ZERODUR® substrate. The second option, Fused Silica, is optically clear and features excellent resistance to abrasion and high durability, making it the best choice for applications in harsh environments. Please note, calibration certificates are not supplied with these parts.

TECHSPEC® λ/10 and λ/20 Precision Optical Flats are available for testing and measurement applications.

Note: Surface flatness specifications are measured before coating.

Coating Curves

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