

[See all 156 Products in Family](#)

**TECHSPEC® 4" Dia. Protected Silver,  $\lambda/20$  Flat ZERODUR®**



Stock #48-118-577 **1 In Stock**

⊖ 1 ⊕ \$1,736<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	\$1,736.00 each
Qty 6-10	\$1,547.00 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Flat Mirror **Type:**  
  
Flatness is specified as Peak to Valley **Note:**

**Physical & Mechanical Properties**

101.60 +0.0/-1.02 **Diameter (mm):**

19.10 ±1.5	<b>Thickness (mm):</b>
Commercial Polish	<b>Back Surface:</b>
91.44	<b>Clear Aperture CA (mm):</b>
+0.0/-0.04	<b>Diameter Tolerance (inches):</b>

## Optical Properties

0.45 - 10	<b>Wavelength Range (µm):</b>
Metal	<b>Coating Type:</b>
Protected Silver (450-10000nm)	<b>Coating:</b>
λ/20	<b>Surface Flatness (P-V):</b>
450 - 10000	<b>Wavelength Range (nm):</b>
ZERODUR®	<b>Substrate:</b> <input type="checkbox"/>
R <sub>avg</sub> >98% @ 450 - 2000nm R <sub>avg</sub> >98% @ 2000 - 10,000nm	<b>Coating Specification:</b>
60-40	<b>Surface Quality:</b>
0.5 J/cm <sup>2</sup> @ 532nm & 1064nm, 10ns	<b>Damage Threshold, Reference:</b> <input type="checkbox"/>

## Regulatory Compliance

Compliant	<b>RoHS 2015:</b>
View	<b>Certificate of Conformance:</b>
Compliant	<b>Reach 247:</b>

## 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

- 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

## Compatible Mounts