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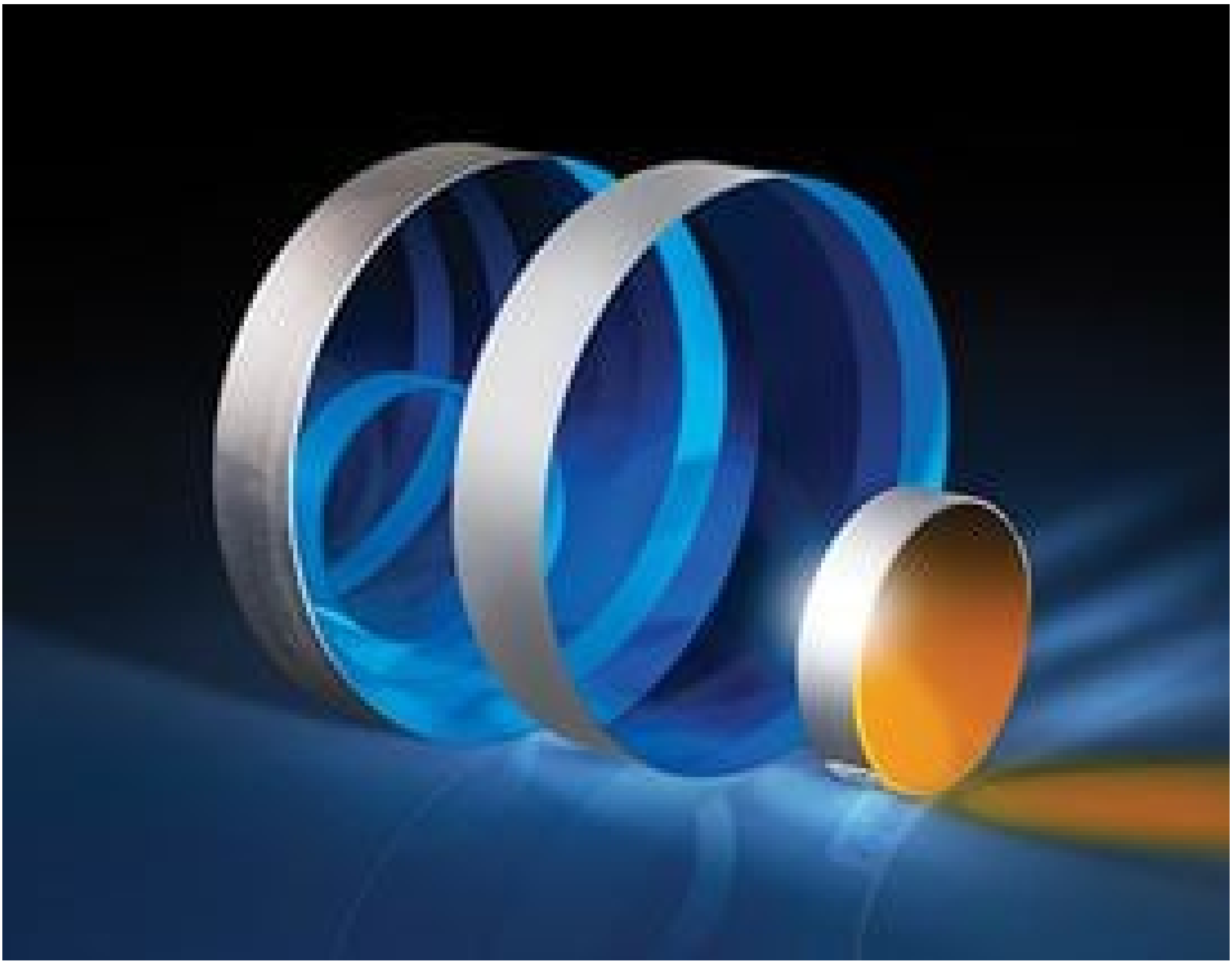
TECHSPEC® 1" Dia. Protected Gold, λ/20 Flat Fused Silica



Stock **#43-408-566** **1 In Stock**

- 1 + **€245**.00

ADD TO CART

Volume Pricing	
Qty 1-10	**€245,00** each
Qty 11-25	**€218,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Flat Mirror

Note:
Flatness is specified as Peak to Valley

Physical & Mechanical Properties

Diameter (mm):
25.40 +0.0/-1.02

Thickness (mm):
12.70 ±1.5

Back Surface:
Commercial Polish

Clear Aperture CA (mm):
22.86

Diameter Tolerance (inches):
+0.0/-0.04

Optical Properties

Wavelength Range (µm):
0.7 - 10

Coating Type:
Metal

Coating:
Protected Gold (700-10000nm)

Surface Flatness (P-V):
λ/20

Wavelength Range (nm):
700 - 10000

Substrate:
Fused Silica (Corning 7980)

Coating Specification:
R_{avg} >96% @ 700 - 2000nm
R_{avg} >96% @ 2000 - 10,000nm

Surface Quality:
60-40

Damage Threshold, Reference:
0.8 J/cm^2 @ 1064nm, 10ns

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

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.

Compatible Mounts

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