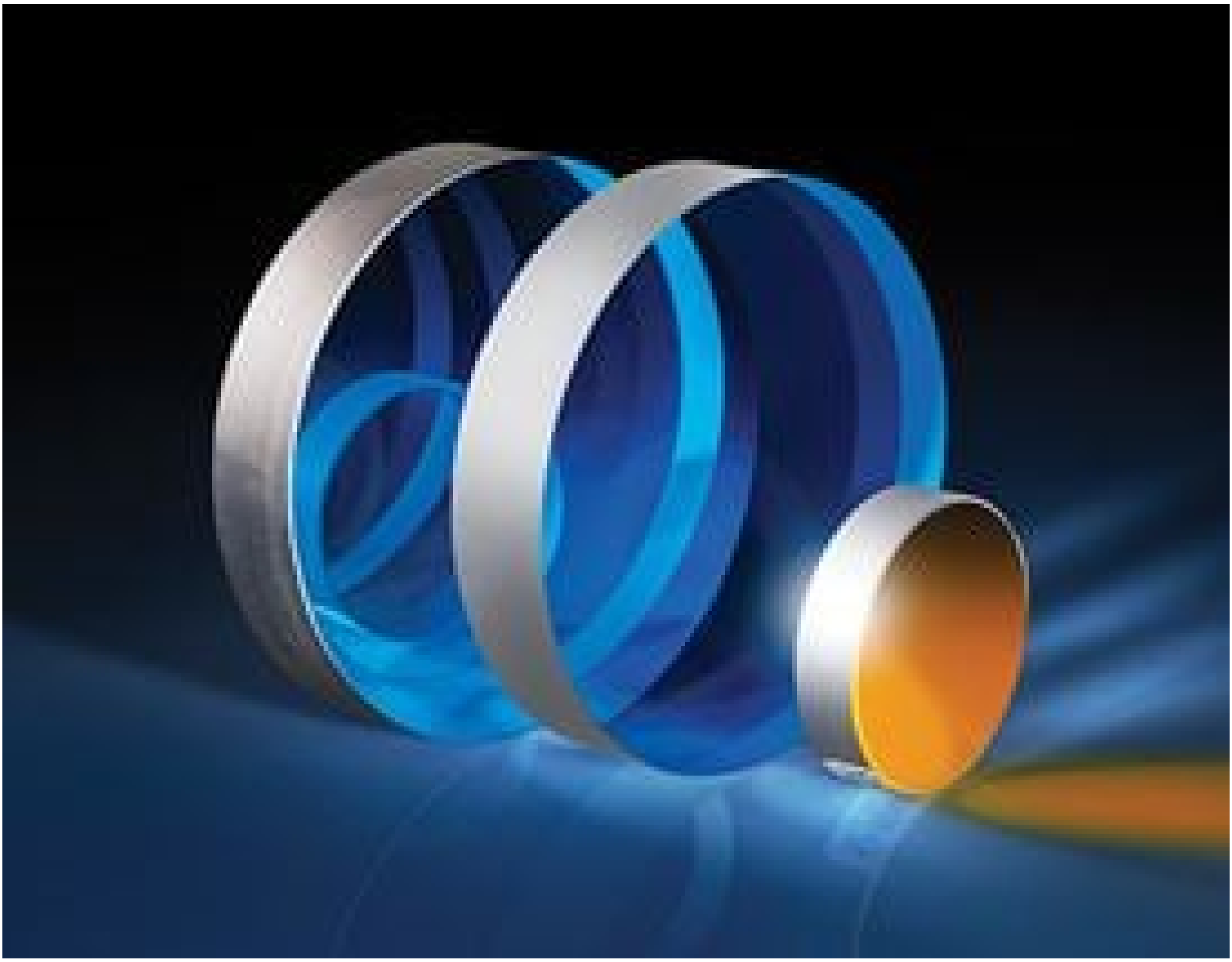
print-screen-header

English SGD Contact Us

All Products / Optics / Optical Mirrors / Flat Mirrors / Precision Polished Metal Coatings / Precision Optical Flat Mirrors

See all 156 Products in Family

TECHSPEC® 4" Dia. Protected Aluminum, λ/20 Flat ZERODUR®



Stock **#48-118-522** CONTACT US

- 1 + S$1,515.25

ADD TO CART

Qty 1-5
S$1,515.25

Qty 6+
S$1,363.00

Volume Pricing
Request Quote

Product Downloads

CUSTOM OPTIONS

SPECIFICATIONS

General

Note:	

Flatness is specified as Peak to Valley

Type:
Flat Mirror

Physical & Mechanical Properties

Back Surface:
Commercial Polish

Diameter (mm):
101.60 +0.0/-1.02

Diameter Tolerance (inches):
+0.0/-0.04

Clear Aperture CA (mm):
91.44

Thickness (mm):
19.10 ±1.5

Thickness Tolerance (mm):
±1.5

Optical Properties

Surface Flatness (P-V):
λ/20

Surface Quality:
60-40

Substrate:
ZERODUR®

Coating Specification:
R_{avg} >85% @ 400 - 700nm
R_{avg} >90% @ 400 - 2000nm

Coating:
Protected Aluminum (400-2000nm)

Coating Type:
Metal

Wavelength Range (µm):
0.4 - 2

Wavelength Range (nm):
400 - 2000

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

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

REACH 241:
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.

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