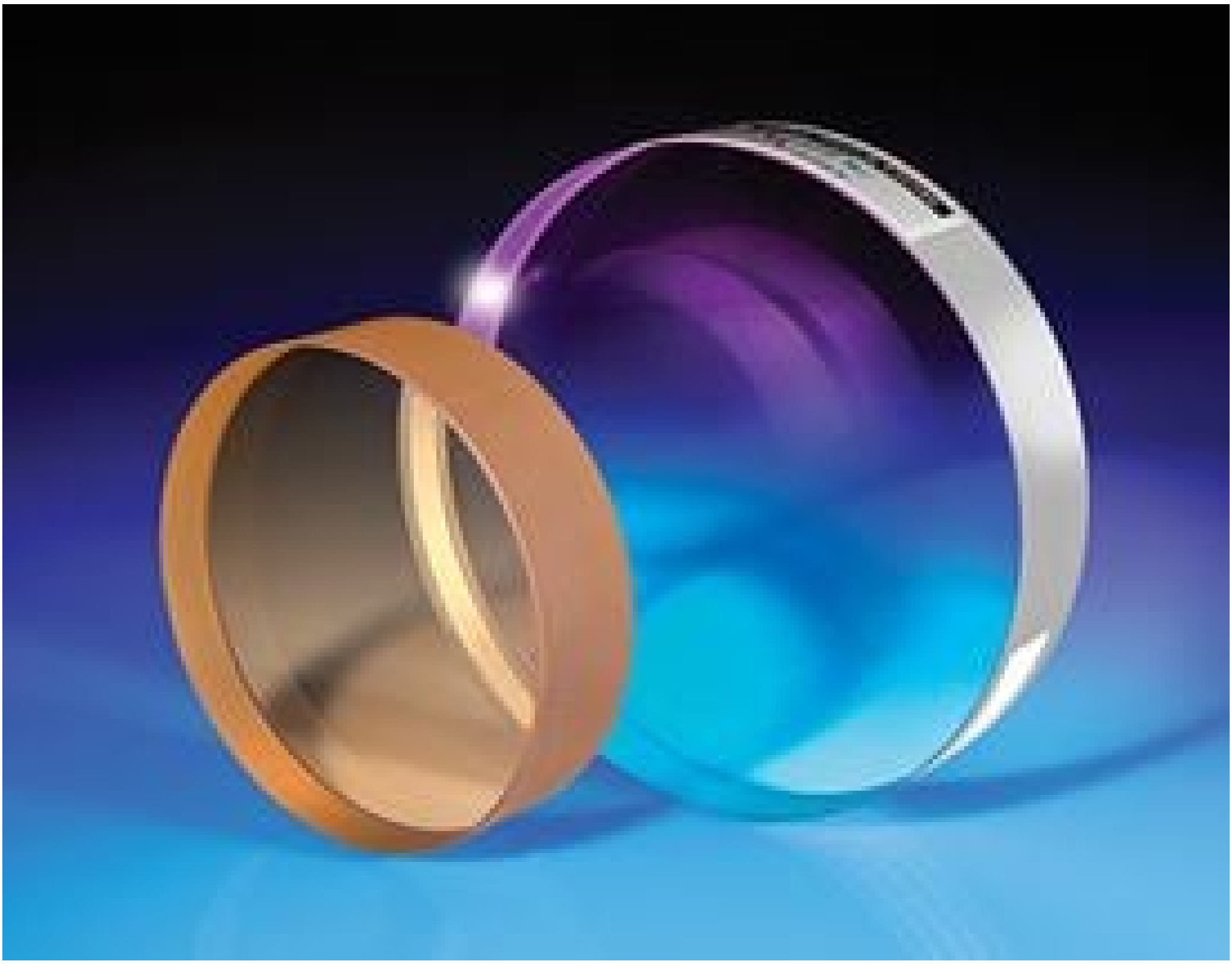
TECHSPEC® 50.8mm Dia. λ/10 Fused Silica Optical Flat



Stock **#01-914-000** **20+ In Stock**

- 1 + **€220.42**

ADD TO CART

Volume Pricing	
Qty 1-10	**€220,42** each
Qty 11-25	**€198,79** each
Qty 26-49	**€188,49** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:
Interferometry Window

Physical & Mechanical Properties

Clear Aperture CA (mm):
45.70

Diameter (inches):
2.00 +0.00/-0.04

Diameter (mm):
50.80 +0.00/-1.00

Thickness (inches):
0.50 ±0.06

Thickness (mm):
12.70 ±1.5

Parallelism (arcmin):
≤3

Bevel:
Protective as needed

Construction:
Single Surface

Edges:
Fine Ground

Poisson's Ratio:
0.16

Young's Modulus (GPa):
73

Knoop Hardness (kg/mm^2):
522.00

Optical Properties

Coating:
Uncoated

Color:
Clear

Substrate:
Fused Silica

Index of Refraction (n_d):
1.458

Surface Quality:
60-40

Abbe Number (v_d):
67.8

Wavelength Range (nm):
200 - 2200

Surface Flatness (P-V):
λ/10

Material Properties

Density (g/cm^3):
2.20

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
0.52 (+5 to +35°C)
0.57 (0 to +200°C)
0.48 (-100 to +200°C)

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 240:
Compliant

PRODUCT DETAILS

- Sizes Ranging from ½" Diameter to 14" Diameter
- Each λ/20 Flat 76.2mm and Larger Includes a Certificate of Calibration
- Available with Standard Metallic Mirror Coatings: **λ/10 and λ/20 Mirrors**

TECHSPEC® Single Surface Optical Flats are used as a reference (test plate) against which the flatness of an unknown surface may be compared. Each piece is precision polished by our master opticians and tested on a Zygo interferometer to insure the surface flatness. The secondary surfaces of our single surface flats are pitch polished to window quality for viewing the interference pattern. TECHSPEC Single Surface Optical Flats ship in a durable storage case for permanent protection. λ/20 flats that are 76.2mm or larger also include a certificate of calibration.