TECHSPEC® 304.8mm Dia. λ/20 Fused Silica Optical Flat
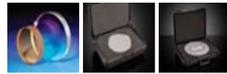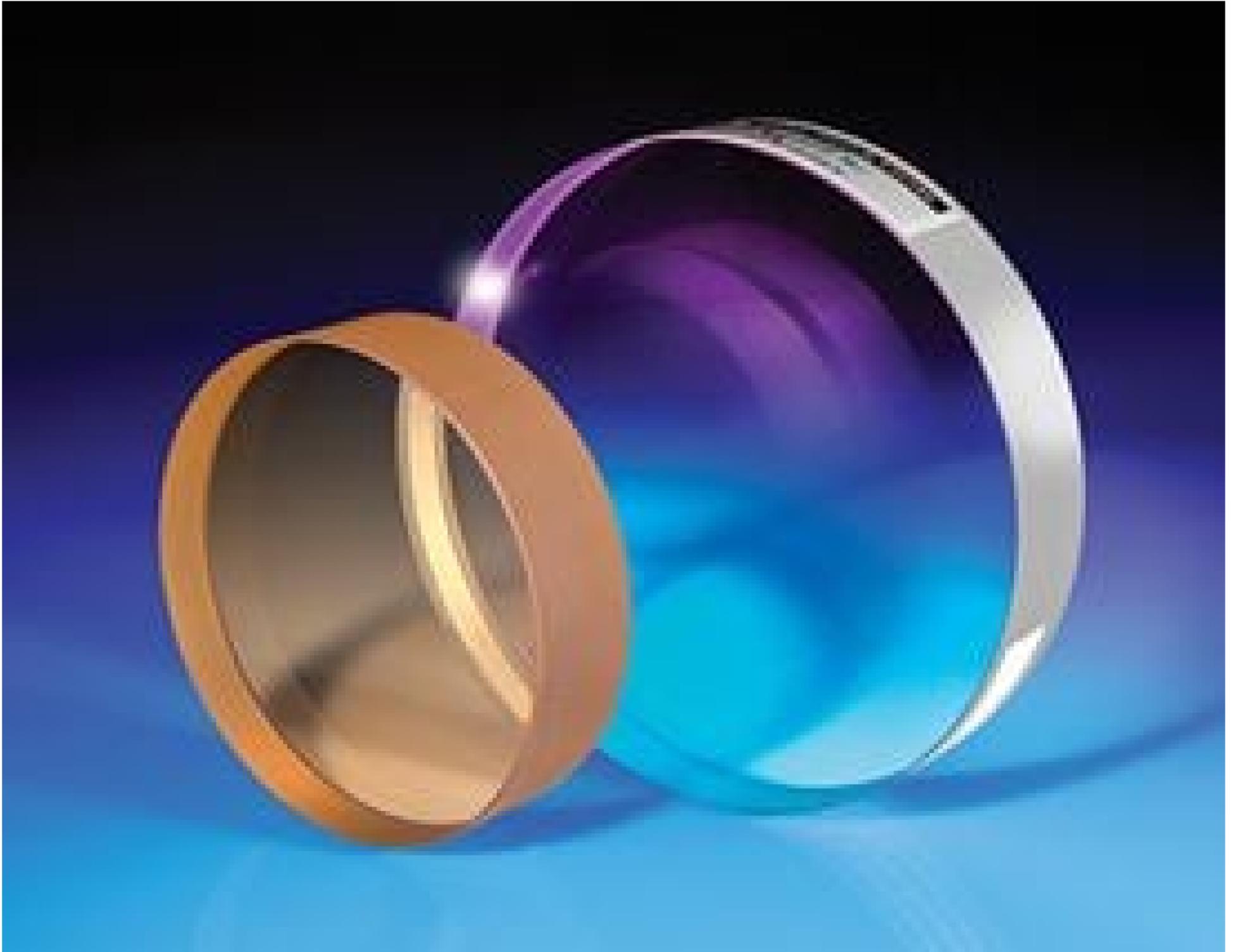
Stock **#65-880-000**   **10 In Stock**

⊖ 1 ⊕   A$20,928.⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-2	**A$20,928.00** each
Qty 3-5	**A$18,592.00** each
Qty 6-9	**A$17,504.00** each
Need More?	Request Quote

Product Downloads

General

Type:
Interferometry Window

Note:
Includes a certificate of calibration.

Physical & Mechanical Properties

Clear Aperture CA (mm):	
274.30	
Diameter (inches):	
12.00 +0.00/-0.04	
Diameter (mm):	
304.80 +0.00/-1.00	
Thickness (inches):	
1.50 ±0.10	
Thickness (mm):	
38.10 ±2.5	
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/20	

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	
Reach 211:	
Compliant	
Certificate of Conformance:	
View	

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.