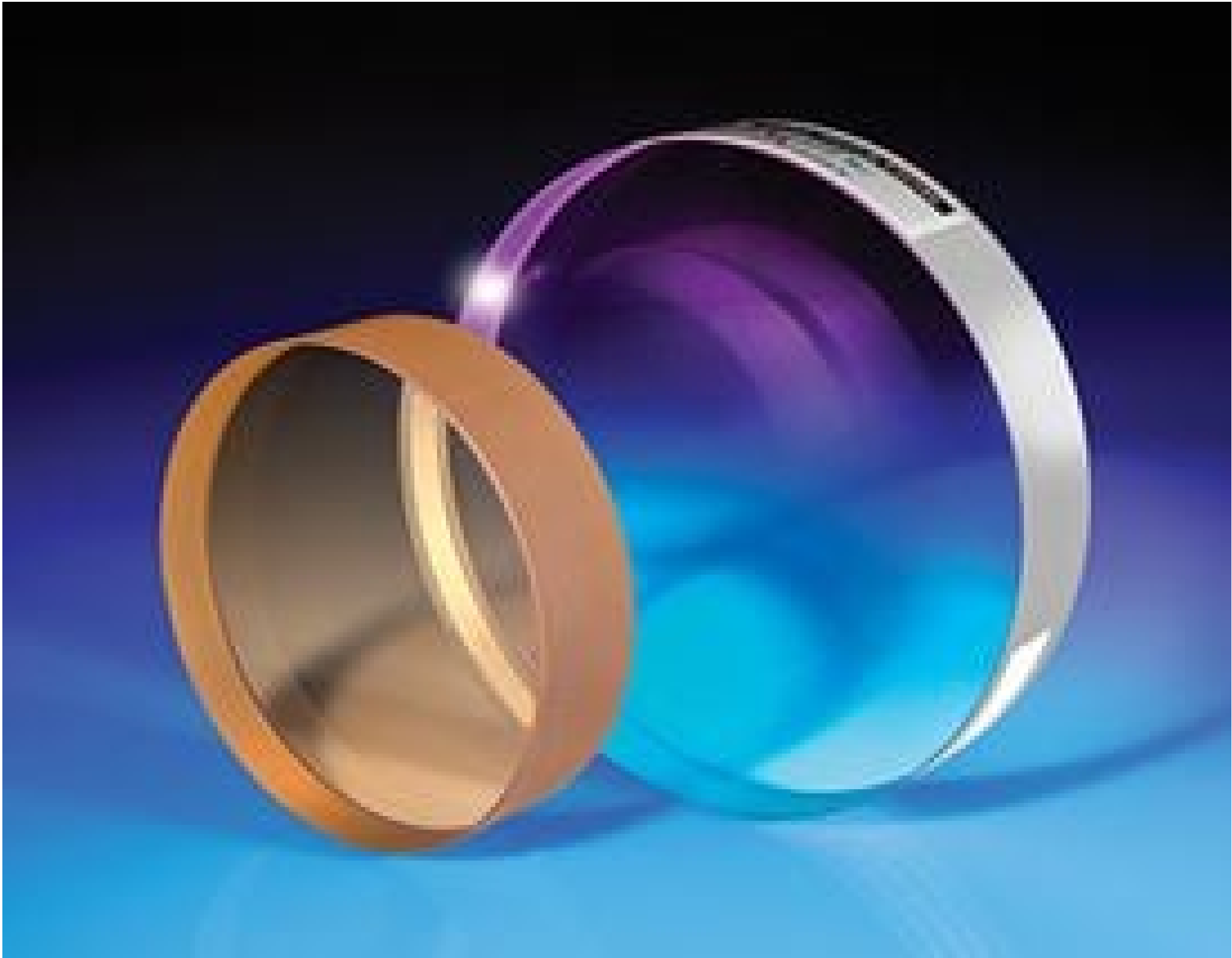


TECHSPEC[®] 127.0mm Dia. λ /20 Fused Silica Optical Flat



Stock **#71-131-000** NEW CONTACT US

-

1

+

€2.008⁵⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€2.008,50 each
Qty 6-25	€1.606,80 each
Qty 26-49	€1.526,46 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Interferometry Window		Type:
Physical & Mechanical Properties		
114.30	Clear Aperture CA (mm):	
5.00 +0.00/-0.04	Diameter (inches):	
127.00 +0.00/-1.00	Diameter (mm):	
1.00 ±0.08	Thickness (inches):	
25.40 ±2.0	Thickness (mm):	
≤3	Parallelism (arcmin):	
Protective as needed	Bevel:	
Single Surface	Construction:	
0.16	Poisson's Ratio:	
73	Young's Modulus (GPa):	
522.00	Knoop Hardness (kg/mm²):	
Optical Properties		
Uncoated	Coating:	
Fused Silica (Corning 7980)	Substrate: ☐	
1.458	Index of Refraction (n _d):	
60-40	Surface Quality:	
67.8	Abbe Number (v _d):	
200 - 2200	Wavelength Range (nm):	
λ/20	Surface Flatness (P-V):	
Material Properties		
2.20	Density (g/cm³):	
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		
View	Certificate of Conformance:	

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.