

TECHSPEC® 50.8mm Dia. $\lambda/20$ Fused Silica Optical Flat



Stock #43-416-000 **20+ In Stock**

− 1 + A\$504⁰⁰

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Volume Pricing	
Qty 1-10	A\$504.00 each
Qty 11-25	A\$449.60 each
Qty 26-49	A\$422.40 each
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Product Downloads

General

Interferometry Window **Type:**

Physical & Mechanical Properties

45.70 **Clear Aperture CA (mm):**

2.00 +0.00/-0.04	Diameter (inches):
50.80 +0.00/-1.00	Diameter (mm):
0.50 ±0.06	Thickness (inches):
12.70 ±1.5	Thickness (mm):
≤3	Parallelism (arcmin):
Protective as needed	Bevel:
Single Surface	Construction:
Fine Ground	Edges:
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):
522.00	Knoop Hardness (kg/mm²):

Optical Properties

Uncoated	Coating:
Clear	Color:
Fused Silica	Substrate: <input type="checkbox"/>
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):
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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.