

TECHSPEC® 254mm Dia. $\lambda/20$ Fused Silica Optical Flat



Stock #65-879-000 **12 In Stock**

⊖ 1 ⊕ €9.146⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-2	€9.146,40 each
Qty 3-5	€8.229,70 each
Qty 6-9	€7.817,70 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Interferometry Window **Type:**

Includes a certificate of calibration. **Note:**

Physical & Mechanical Properties

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

10.00 +0.00/-0.04 **Diameter (inches):**

254.00 +0.00/-1.00 **Diameter (mm):**

1.50 ±0.10 **Thickness (inches):**

38.10 ±2.5 **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:**

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

[Compliant](#) **Reach 191:**

[Compliant](#) **RoHS 2015:**

[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.

