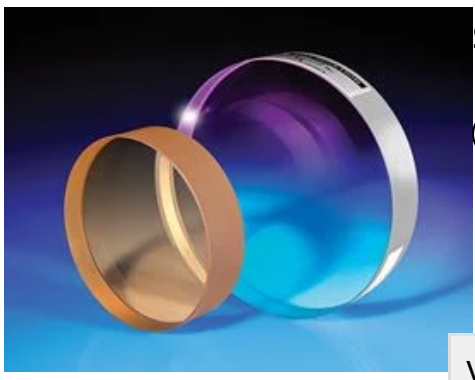
TECHSPEC® 12.7mm Dia. λ/20 ZERODUR® Optical Flat



Stock #43-404-000 16 In Stock

- 1 +

£124.00

ADD TO CART

Volume Pricing	
Qty 1-10	£124.00 each
Qty 11-25	£110.40 each
Qty 26-49	£104.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

STEP:step PDF Drawing:pdf

IGES:igs eDrawing:eprt

EO Spec Sheet Download All

General

Type:	Interferometry Window		

Physical & Mechanical Properties

Clear Aperture CA (mm):	11.40	**Diameter (inches):**	0.50 +0.00/-0.02
Diameter (mm):	12.70 +0.0/-0.50	**Thickness (inches):**	0.13 ±0.03
Thickness (mm):	3.20 ±0.8	**Parallelism (arcmin):**	≤3
Bevel:	Protective as needed	**Construction:**	Single Surface
Edges:	Fine Ground	**Poisson's Ratio:**	0.24
Young's Modulus (GPa):	90.3	**Knoop Hardness (kg/mm^2):**	620.00

Optical Properties

Coating:	Uncoated	**Color:**	Yellow Tint
Substrate: ⓘ	ZERODUR®	**Index of Refraction (n_d):**	1.542
Surface Quality:	60-40	**Abbe Number (v_d):**	56.2
Surface Flatness (P-V):	λ/20		

Material Properties

Density (g/cm^3):	2.53	**Coefficient of Thermal Expansion CTE ($10^{-6}/°C$):**	0.1

Regulatory Compliance

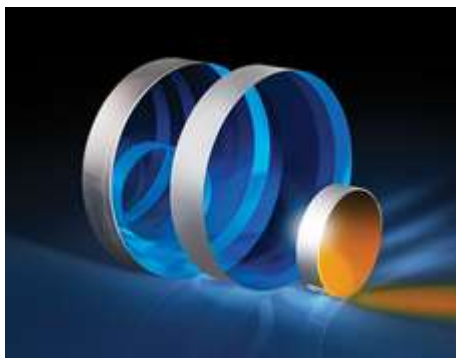
RoHS 2015:	**Compliant**	**Reach 211:**	**Compliant**
Certificate of Conformance:	**View**		

Product Details

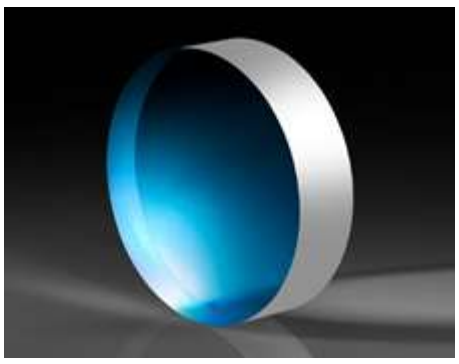
- Sizes Ranging from ½" Diameter to 14" Diameter
- Each λ/20 Flat 76.2mm and Larger Includes a Certificate of Calibration
- Available with Standard Metallic Mirror Coatings: **λ/10 and λ/20 Mirrors**

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.

Related Products



Precision Optical Flat Mirrors

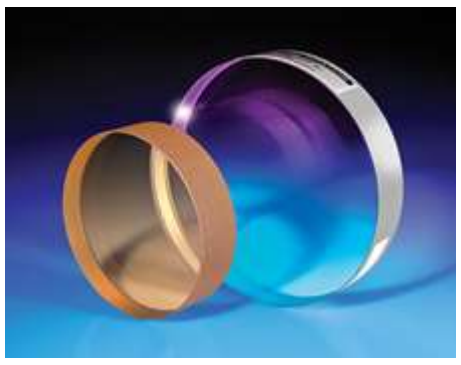


Precision Dual Surface Optical Flats

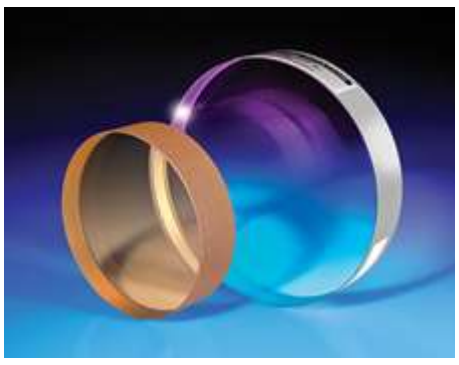
Optical Lens and Filter Mounts

Optical Cell Kinematic Mounts

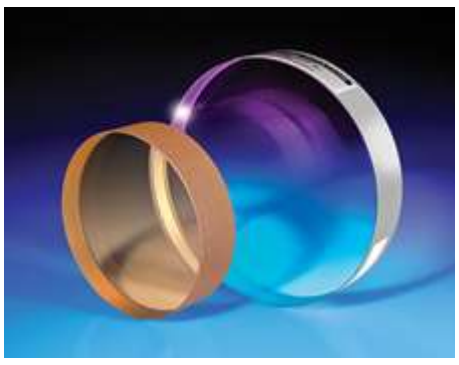
Frequently Purchased Together



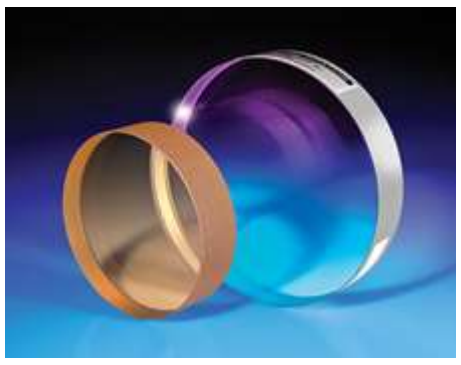
#32-195-000 – 25.4mm Dia. λ/10 ZERODUR® Optical Flat
£128.00
Qty



#43-400-000 – 12.7mm Dia. λ/20 Fused Silica Optical Flat
£108.00
Qty



#01-913-000 – 25.4mm Dia. λ/10 Fused Silica Optical Flat
£112.00
Qty



#43-319-000 – 12.7mm Dia. λ/10 Fused Silica Optical Flat
£76.00
Qty

Resources

Media Type

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

TECHNICAL TOOL
Beam Displacement Calculator

- [ ] Application Note
- [ ] Technical Tool
- [ ] Video
- [ ] Glossary
- [ ] FAQ

APPLICATION NOTE

Understanding Optical Windows

VIDEO

Optical Windows Review

APPLICATION NOTE

Optical Glass

View More

;