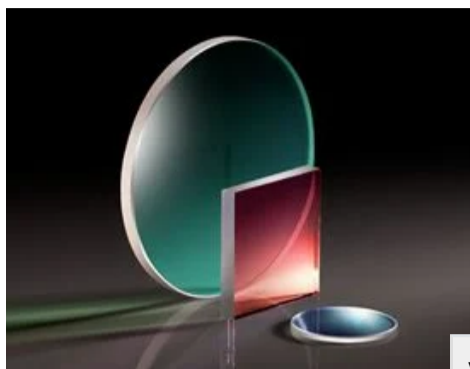


TECHSPEC® 0° AOI, 12.5mm Diameter, Hot Mirror



TECHSPEC High Performance Hot Mirror

Stock #64-453 20+ In Stock

1 £41^{.20}

ADD TO CART



Volume Pricing	
Qty 1-9	£41.20 each
Qty 10-25	£37.00 each
Qty 26-49	£35.20 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	Download All

General

Type: Shortpass Filter

Physical & Mechanical Properties

Diameter (mm): 12.50

Thickness (mm): 1.10 ±0.2

Dimensional Tolerance (mm): +0.0/-0.2

Optical Properties

Coating Type: Dielectric

Coating: Hot Mirror, 0°

Surface Flatness (P-V): 4 - 6λ

Wavelength Range (nm): 400 - 1150

Substrate: **BOROFLOAT®**

Angle of Incidence (°): 0

Coating Specification: T_{avg} >90% @ 400 - 690nm, R_{avg} >95% @ 710 - 1150nm, AR: R_{avg} <1% @ 400 - 700nm

Surface Quality: 80-50

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Reach 247: **Compliant**

Product Details

- High Transmission from 400 - 690nm
- High Reflection from 750 - 1125nm
- Ideal for Minimizing Heat Build-Up

TECHSPEC® High Performance Hot Mirrors feature a multi-layer dielectric coating optimized for greater than 85% transmission of visible light and greater than 95% reflection of IR wavelengths. For high power illumination, forced air cooling is recommended. Hot mirrors, also known as heat-reflecting mirrors, are crucial in many projection and illumination systems where high levels of heat can quickly damage sensitive components. TECHSPEC High Performance Hot Mirrors are ideal for minimizing heat build-up. Hot mirrors are specially coated to transmit visible light while reflecting the NIR, a major contributor to heat generation. By using a hot mirror, heat levels are limited with minimum impact on the overall system performance.

Technical Information

Related Products



Kinematic Optical Mirror Mounts



Kinematic Square Optical Mounts

Quote Your Size

PLEASE ENTER YOUR
REQUIRED SPECIFICATIONS
HERE:

Type

Substrate

Thickness (mm)

Shape ?

Diameter (mm) ?

Length (mm) ?

Width (mm) ?

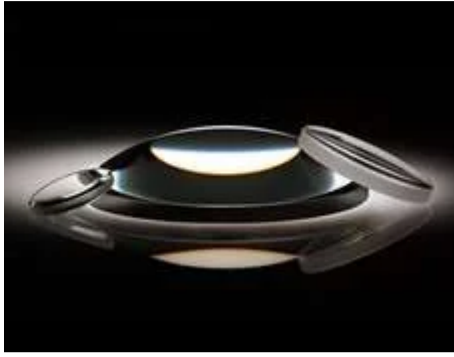
Quantity ?

GET PRICING

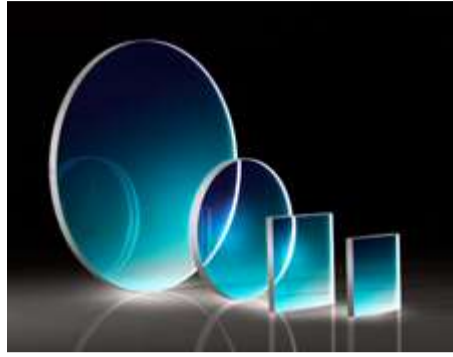
TYPICAL 4-6 WEEK DELIVERY. DELIVERY
DATE TO BE CONFIRMED AT TIME OF
ORDER.

OTHER SUBSTRATES, DIMENSIONS AND
THICKNESSES OUTSIDE OF THOSE SHOWN
HERE ARE ALSO AVAILABLE. IF YOU ARE
INTERESTED IN A PRODUCT OUTSIDE OF
THE SPECIFICATIONS SHOWN IN THIS

Frequently Purchased Together



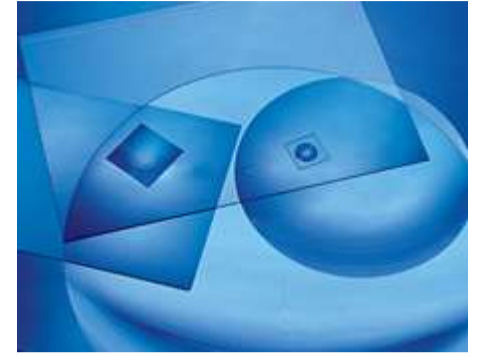
#32-476 - 20.0mm Dia. x 100.0mm
FL, MgF₂ Coated, Plano-
Convex Lens
£32.40



#02-105 - 12.5mm Diameter Float
Glass Window
£12.00



#03-629 - C-Mount Double Male
Thread Ring
£29.40



#32-588 - 1.5" x 1.5", 1.0" FL,
Aspheric Fresnel Lens
£33.60

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	£81.60 Request Quote	20+ In Stock <input type="text" value="1"/>
	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	£84.80 Request Quote	20+ In Stock <input type="text" value="1"/>
	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	£86.40 Request Quote	CONTACT US <input type="text" value="1"/>
	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	£92.80 Request Quote	20+ In Stock <input type="text" value="1"/>
	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	£96.00 Request Quote	20+ In Stock <input type="text" value="1"/>
	4.0 - 36.0mm Optic Dia., Self- Centering Jaw Clamp	Fixed		#16-077	£125.60 Request Quote	5 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	£208.80 Request Quote	5 In Stock <input type="text" value="1"/>
	5.0 - 100.0mm Optic Dia., Self- Centering Jaw Clamp	Fixed		#16-078	£328.00 Request Quote	CONTACT US <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#84-640	£336.80 Request Quote	7 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	£343.20 Request Quote	5 In Stock <input type="text" value="1"/>

Resources

Media Type

- Application Note
- Video
- Published Article
- FAQ
- Glossary
- Trending in Optics

APPLICATION NOTE

The Importance of Optical Filter Orientation...

APPLICATION NOTE

Custom Bandpass Filter using Shortpass an...

VIDEO

Optical Filters Review

VIDEO

Optical Filter Coatings: Comparison of Traditional a...

PUBLISHED ARTICLE

Selecting Color Filter Glass for Life Science Applications

FAQ

What type of material should I look for in a filter?

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