

12.7mm Dia., 2mm Thick, 30' Wedge, ISP Optics Barium Fluoride (BaF₂) Wedged Window | BF-WW-12-2

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Barium Fluoride (BaF₂) Wedged Windows



Stock **#24-511** 5 In Stock

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1

+

₹10,856

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SPECIFICATIONS

General

Type:

Protective Window	
	Model Number:
BF-VWV-12-2	
Physical & Mechanical Properties	
	Bevel:
Protective as needed	
	Clear Aperture (%):
85	
	Clear Aperture CA (mm):
10.79	
	Diameter (mm):
12.70 +0.00/-0.13	
	Thickness (mm):
2.00 ±0.13	
	Edges:
Fine Ground	
	Knoop Hardness (kg/mm²):
82.00	
	Poisson's Ratio:
0.34	
	Young's Modulus (GPa):
53	
	Wedge Angle (arcmin):
30±15 arcmin	
Optical Properties	
	Abbe Number (v _d):
81.78	
	Axis Orientation:
Random	
	Coating:
Uncoated	
	Index of Refraction (n _d):
1.478 @ 0.5µm 1.451 @ 5µm 1.401 @ 10µm	
	Substrate:
Barium Fluoride (BaF ₂)	
	Surface Flatness (P-V):
2λ @ 10.6µm	
	Surface Quality:
60-40	
	Wavelength Range (nm):
2000 - 5000	
Material Properties	
	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
18.1	
	Density (g/cm³):
4.89	
Regulatory Compliance	
	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	
	Reach 240:
Compliant	

PRODUCT DETAILS

- 30 Arcmin Wedge
- Excellent Transmission from 200nm - 12µm
- Resistant to High-Energy Radiation
- [Precision Flat Barium Fluoride \(BaF₂\) Windows](#) Also Available

ISP Optics Barium Fluoride (BaF₂) Wedged Windows feature a 30 arcmin wedge to eliminate etalon effects, improving readout in detection and spectroscopy applications. With a low index of refraction of 1.48, these windows provide high transmission from 200nm to 12µm without the need of an anti-reflection (AR) coating. Barium fluoride windows can be used up to 800°C in a dry environment, but prolonged exposure to moisture can degrade transmission in the vacuum ultraviolet range. ISP Optics Barium Fluoride (BaF₂) Wedged Windows are ideal for infrared spectroscopy, thermal imaging, and general UV-IR detection applications. Barium fluoride is also a fast scintillator and can be used for the detection X-rays, gamma rays, or other high energy particles.

Note: These optical windows are very sensitive to thermal shock.

TECHNICAL INFORMATION

