

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

-

1

+

£129⁶⁰

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Volume Pricing	
Qty 1+	£129.60 each
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Product Downloads

General	
BF-WW-12-2	Model Number:
Protective Window	Type:

Physical & Mechanical Properties	
10.79	Clear Aperture CA (mm):
12.70 +0.00/-0.13	Diameter (mm):
2.00 ±0.13	Thickness (mm):
Protective as needed	Bevel:
85	Clear Aperture (%):
Fine Ground	Edges:
0.34	Poisson's Ratio:
53	Young's Modulus (GPa):
82.00	Knoop Hardness (kg/mm²):
30±15 arcmin	Wedge Angle (arcmin):

Optical Properties	
Uncoated	Coating:
Barium Fluoride (BaF ₂)	Substrate: ☐
1.478 @ 0.5µm 1.451 @ 5µm 1.401 @ 10µm	Index of Refraction (n _d):
60-40	Surface Quality:
81.78	Abbe Number (v _d):
Random	Axis Orientation:
2000 - 5000	Wavelength Range (nm):
2λ @ 10.6µm	Surface Flatness (P-V):

Material Properties	
4.89	Density (g/cm³):
18.1	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

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

