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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 **\$226⁰⁰**

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Qty 1+	\$226.80 each
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General

Protective Window **Type:**

BF-WW-12-2 **Model Number:**

Physical & Mechanical Properties

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

Optical Properties

81.78	Abbe Number (v_d):
Random	Axis Orientation:
Uncoated	Coating:
1.478 @ 0.5μm 1.451 @ 5μm 1.401 @ 10μm	Index of Refraction (n_d):
Barium Fluoride (BaF₂)	Substrate:
2λ @ 10.6μm	Surface Flatness (P-V):
60-40	Surface Quality:
2000 - 5000	Wavelength Range (nm):

Material Properties

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

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

