

25.4mm Dia., 4mm Thick, 30' Wedge, ISP Optics Barium Fluoride (BaF₂) Wedged Window | BF-WW-25-4

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Barium Fluoride (BaF₂) Wedged Windows



Stock **#16-806** CLEARANCE **6 In Stock**

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1

+

€389^{.00}

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Qty 1+	€389,00 each
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Product Downloads

General	
BF-WW-25-4	Model Number:
Protective Window	Type:

Physical & Mechanical Properties	
21.59	Clear Aperture CA (mm):
25.40 +0.00/-0.13	Diameter (mm):
4.00 ±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):
200 - 12000	Wavelength Range (nm):
2λ @ 633nm	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

