

25.4mm Dia., 4mm Thick, 30' Wedge, BBAR (2000-5000nm) Coated, ISP Optics Barium Fluoride (BaF₂) Wedged Window

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Barium Fluoride (BaF₂) Wedged Windows



Stock **#23-719** CLEARANCE **2 In Stock**

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1

+

€415⁰⁹

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Qty 1+	€415,09 each
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SPECIFICATIONS

General

Protective Window	Type:
Physical & Mechanical Properties	
Protective as needed	Bevel:
85	Clear Aperture (%):
21.59	Clear Aperture CA (mm):
25.40 +0.0/-0.13	Diameter (mm):
4.00 ±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:
BBAR (2000-5000nm)	Coating:
R _{avg} <1.5% @ 2000-5000nm R _{abs} <3.0% @ 2000-5000nm R _{avg} <1.75% @ 2000-4000nm	Coating Specification:
1.478 @ 0.5µm 1.451 @ 5µm 1.401 @ 10µm	Index of Refraction (n _d):
Barium Fluoride (BaF ₂)	Substrate:
2λ @ 633nm	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 235:

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 Wndows 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

