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# 50.8mm Dia., 6mm Thick, 30' Wedge, BBAR (2000-5000nm) Coated, ISP Optics Barium Fluoride (BaF<sub>2</sub>) Wedged Window

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Barium Fluoride (BaF<sub>2</sub>) Wedged Windows



Stock #23-720 **CLEARANCE** 5 In Stock

- 1 + MRP ₹85,757

Price inclusive of all taxes

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## Product Downloads

### General

Protective Window **Type:**

Crystal **Type of Window:**

### Physical & Mechanical Properties

## Physical & Mechanical Properties

43.18	Clear Aperture CA (mm):
50.80 +0.0/-0.13	Diameter (mm):
6.00 ±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/mm <sup>2</sup> ):
30±15 arcmin	Wedge Angle (arcmin):

## Optical Properties

BBAR (2000-5000nm)	Coating:
<a href="#">Barium Fluoride (BaF<sub>2</sub>)</a>	Substrate: □
1.478 @ 0.5µm 1.451 @ 5µm 1.401 @ 10µm	Index of Refraction (n <sub>d</sub> ):
60-40	Surface Quality:
81.78	Abbe Number (v <sub>d</sub> ):
Random	Axis Orientation:
R <sub>avg</sub> <1.5% @ 2000-5000nm R <sub>abs</sub> <3.0% @ 2000-5000nm R <sub>avg</sub> <1.75% @ 2000-4000nm	Coating Specification:
2000 - 5000	Wavelength Range (nm):
2λ @ 633nm	Surface Flatness (P-V):

## Material Properties

4.89	Density (g/cm <sup>3</sup> ):
18.1	Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C):

## Regulatory Compliance

<a href="#">Compliant</a>	RoHS 2015:
<a href="#">View</a>	Certificate of Conformance:
<a href="#">Compliant</a>	Reach 235:
United States	Country of Origin:
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	Imported By:

## Product Details

- 30 Arcmin Wedge
- Excellent Transmission from 200nm - 12µm
- Resistant to High-Energy Radiation
- [Precision Flat Barium Fluoride \(BaF<sub>2</sub>\) Windows](#) Also Available

ISP Optics Barium Fluoride (BaF<sub>2</sub>) 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 12 $\mu$ m 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 (BaF<sub>2</sub>) 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

