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12.7mm Dia., 2mm Thick, 30' Wedge, ISP Optics Barium Fluoride (BaF_2) Wedged Window | BF-WW-12-2

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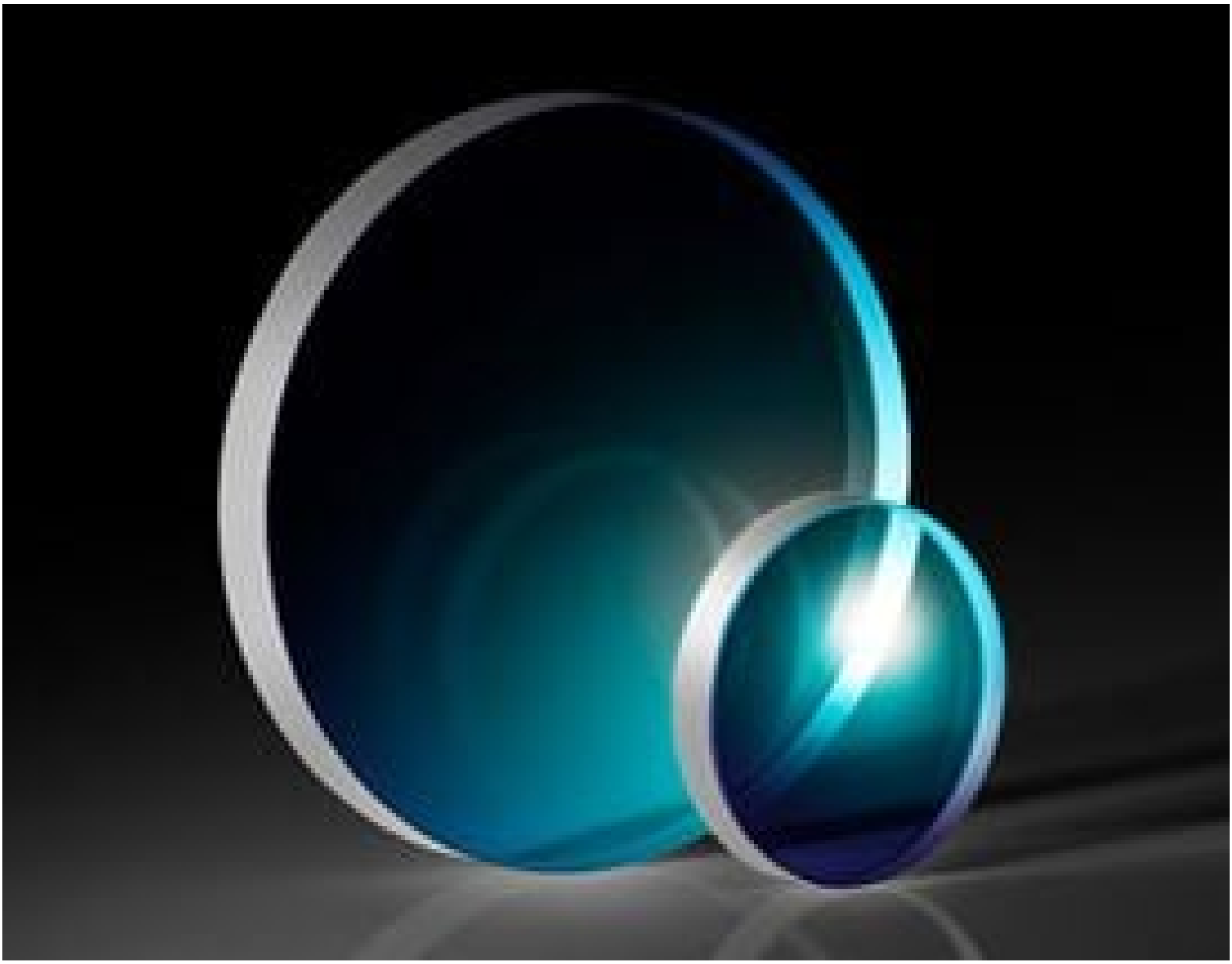


Barium Fluoride (BaF_2) Wedged Windows

Stock **#24-511** **1 In Stock**

- 1 + **€162**.00

ADD TO CART

Volume Pricing	
Qty 1+	**€162,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Model Number:
BF-WW-12-2

Type:
Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):
10.79

Diameter (mm):
12.70 +0.00/-0.13

Thickness (mm):
2.00 ±0.13

Bevel:
Protective as needed

Clear Aperture (%):
85

Edges:
Fine Ground

Poisson's Ratio:
0.34

Young's Modulus (GPa):
53

Knoop Hardness (kg/mm^2):
82.00

Wedge Angle (arcmin):
30±15 arcmin

Optical Properties

Coating:
Uncoated

Substrate:
Barium Fluoride (BaF_2)

Index of Refraction (n_d):
1.478 @ 0.5µm 1.451 @ 5µm 1.401 @ 10µm

Surface Quality:
60-40

Abbe Number (v_d):
81.78

Axis Orientation:
Random

Wavelength Range (nm):
2000 - 5000

Surface Flatness (P-V):
2λ @ 10.6µm

Material Properties

Density (g/cm^3):
4.89

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
18.1

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 240:
Compliant

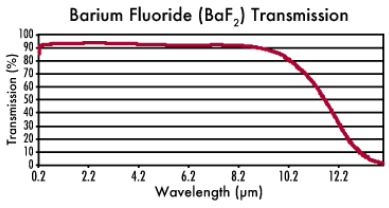
Product Details

- 30 Arcmin Wedge
- Excellent Transmission from 200nm - 12µm
- Resistant to High-Energy Radiation
- **Precision Flat Barium Fluoride (BaF_2) Windows** Also Available

ISP Optics Barium Fluoride (BaF_2) 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 (BaF_2) 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


Barium Fluoride (BaF_2) Transmission
Transmission (%)
100
90
80
70
60
50
40
30
20
10
0
0.2
2.2
4.2
6.2
8.2
10.2
12.2
Wavelength (µm)

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