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38.1mm Dia., 4mm Thick, Uncoated, ISP Optics Barium Fluoride (BaF₂) Window | BF-W-38-4

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Stock #24-500 **CLEARANCE** 3 In Stock

⊖ 1 ⊕ €193.⁹⁵

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⚠ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

BF-W-38-4	Model Number:
Protective Window	Type:
	Type of Window:

Physical & Mechanical Properties

32.38 **Clear Aperture CA (mm):**

38.10 +0.00/-0.13 **Diameter (mm):**

4.00 ±0.13 **Thickness (mm):**

<3 **Parallelism (arcmin):**

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):**

Optical Properties

Uncoated **Coating:**

[Barium Fluoride \(BaF₂\)](#) **Substrate:**

1.48 **Index of Refraction (n_d):**

40-20 **Surface Quality:**

81.78 **Abbe Number (v_d):**

Random **Axis Orientation:**

200 - 12000 **Wavelength Range (nm):**

2λ **Surface Flatness (P-V):**

Material Properties

4.89 **Density (g/cm³):**

18.1 **Coefficient of Thermal Expansion CTE (10⁻⁶/°C):**

Environmental & Durability Factors

Maximum: 800 **Operating Temperature (°C):**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 240:**

Product Details

- Excellent Transmission from 0.2 - 12μm
- Resistant to High-Energy Radiation
- High Transmission without AR Coatings

ISP Optics Barium Fluoride (BaF₂) Windows provide excellent transmission from 0.2- 12μm without the need for an Anti-Reflection (AR) coating due to its low index of refraction. Barium Fluoride has similar physical properties to Calcium Fluoride, but features higher resistance to high-energy radiation. This makes Barium Fluoride ideal for vacuum UV (VUV) applications such as thermography or laser spectroscopy where high radiation resistance is required. ISP Optics Barium Fluoride (BaF₂) Windows can be used up to 800°C in a dry environment, but prolonged exposure to moisture can degrade transmission in the ultraviolet range.

Note: These optical windows are very sensitive to thermal shock.

Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools

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