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38.1mm Dia., 1mm Thick, Uncoated, ISP Optics Barium Fluoride (BaF₂) Window | BF-W-38-1

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Stock #24-497 **CLEARANCE** 11 In Stock

- 1 + C\$346⁴³

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General

BF-W-38-1 **Model Number:**

Protective Window **Type:**

Crystal **Type of Window:**

Physical & Mechanical Properties

32.38 Clear Aperture CA (mm):

38.10 +0.00/-0.13 Diameter (mm):

1.00 ±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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