

Barium Fluoride, 25.4mm, Uncoated, ISP Optics IR Equilateral Prism | BF-EP-25

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Stock #25-038 CLEARANCE **14 In Stock**

⊖ 1 ⊕ €1.530⁰⁰

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Product Downloads

General

Equilateral Prism **Type:**
BF-EP-25 **Model Number:**

Physical & Mechanical Properties

±0.25 **Dimensional Tolerance (mm):**
Clear Aperture (%):

85.00

25.40 Length of Hypotenuse (mm):

25.40 Length of Legs (mm):

Optical Properties

Uncoated Coating:

Barium Fluoride (BaF₂) Substrate:

40-20 Surface Quality:

±10 Angle Tolerance (arcmin):

200 - 12000 Wavelength Range (nm):

0.2 - 12 Wavelength Range (μm):

2λ Surface Flatness (P-V):

Regulatory Compliance

Compliant RoHS 2015:

View Certificate of Conformance:

Compliant Reach 240:

Product Details

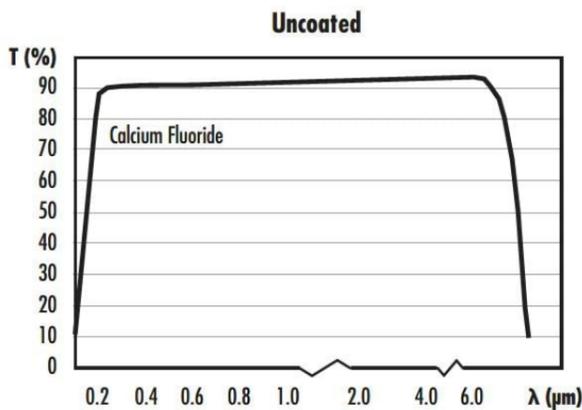
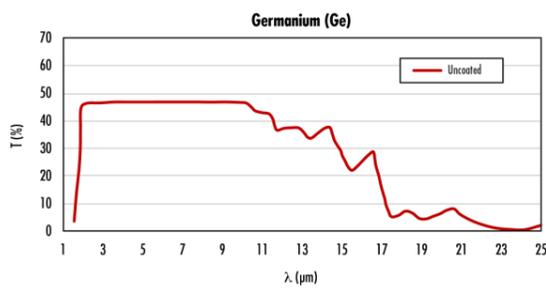
- CaF₂, Ge, and ZnSe Substrates
- Ideal for Wavelength Separation
- Designed for Use with Collimated Sources
- Additional [Infrared Optics](#) Available

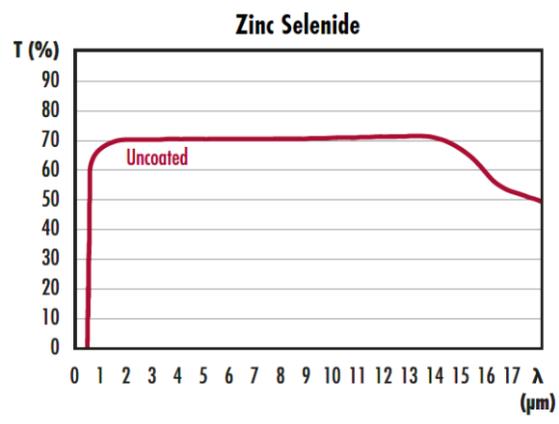
Due to material supply chain disruptions with germanium, there may be increased lead times and price changes on our germanium products. For more information, please contact our [customer service team](#).

ISP Optics Infrared (IR) Equilateral Prisms, also referred to as dispersion prisms, feature three equal 60° angles and are used in wavelength separating applications. These prisms are available with calcium fluoride (CaF₂), germanium (Ge), or zinc selenide (ZnSe) substrates. CaF₂ equilateral prisms offer a low refractive index and broad transmission range from 0.2 – 7 μm, making them ideal for applications requiring high transmission from the UV through the IR. Ge equilateral prisms are transmissive from 2 – 14 μm with a high index of 4.002 at 11 μm and are used in applications where the optical path length needs to be maximized. ZnSe equilateral prisms have high, even transmission from 0.6 - 18 μm and are typically integrated with CO₂ laser systems that feature a 632.8nm HeNe alignment laser and 10.6 μm output beam.

Note: Special care should be taken when handling Zinc Selenide as it is a toxic material. Always wear rubber or plastic gloves to avoid risk of contamination.

Technical Information





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