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# 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 + **€1.530**,00

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## General

**Type:**
Equilateral Prism

**Model Number:**
BF-EP-25

## Physical & Mechanical Properties

**Dimensional Tolerance (mm):**
±0.25

**Clear Aperture (%):**

85.00

**Length of Hypotenuse (mm):**
25.40

**Length of Legs (mm):**
25.40

## Optical Properties

**Coating:**
Uncoated

**Substrate:**
Barium Fluoride ($BaF_2$)

**Surface Quality:**
40-20

**Angle Tolerance (arcmin):**
±10

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

**Wavelength Range (µm):**
0.2 - 12

**Surface Flatness (P-V):**
2λ

## Regulatory Compliance

**RoHS 2015:**
Compliant

**Certificate of Conformance:**
View

**Reach 240:**
Compliant

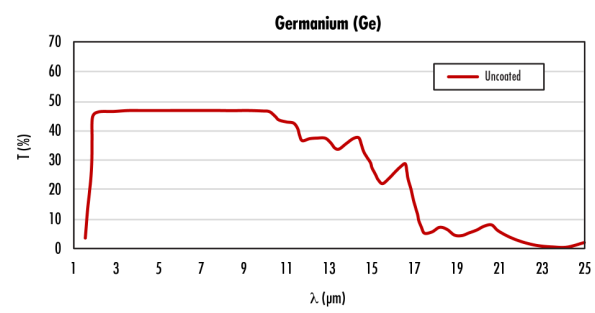
# Product Details

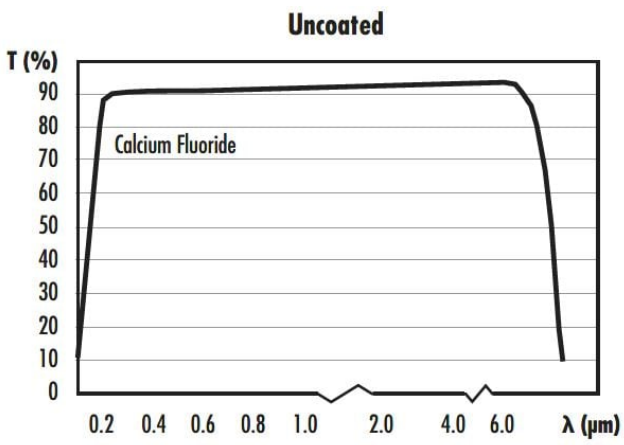
- $CaF_2$, Ge, and ZnSe Substrates
- Ideal for Wavelength Separation
- Designed for Use with Collimated Sources
- Additional **Infrared Optics** Available
- Due to material supply chain disruptions with germanium, there may be increased lead times and price changes on our germanium products. For more information, please contact our **customer service team**.

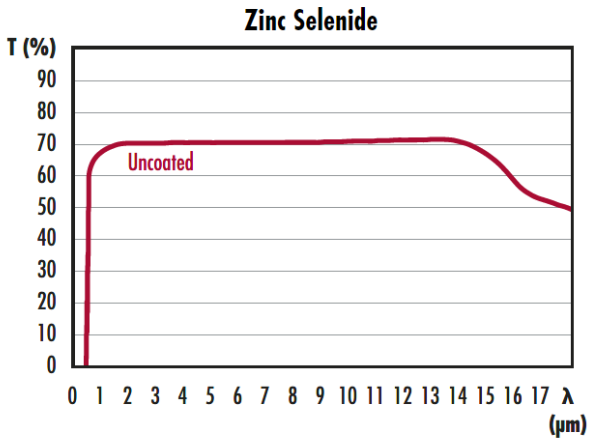
ISP Optics Infrared (IR) Equilateral Prisms, also referred to as dispersion prisms, feature three equal 60° angles and are used in wavelength separating applications. These prisms are available with calcium fluoride ($CaF_2$), germanium (Ge), or zinc selenide (ZnSe) substrates. $CaF_2$ equilateral prisms offer a low refractive index and broad transmission range from 0.2 – 7µm, making them ideal for applications requiring high transmission from the UV through the IR. Ge equilateral prisms are transmissive from 2 – 14µm with a high index of 4.002 at 11µm and are used in applications where the optical path length needs to be maximized. ZnSe equilateral prisms have high, even transmission from 0.6 - 18µm and are typically integrated with $CO_2$ laser systems that feature a 632.8nm HeNe alignment laser and 10.6µm 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**