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# 12.7mm, ISP Optics Calcium Fluoride Equilateral Prism | CF-EP-12

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## General

**Type:**
Equilateral Prism

**Model Number:**
CF-EP-12

## Physical & Mechanical Properties

**Dimensional Tolerance (mm):**
±0.25

**Clear Aperture (%):**

85

**Length of Hypotenuse (mm):**
12.70

**Length of Legs (mm):**
12.70

## Optical Properties

**Coating:**
Uncoated

**Substrate:**
Calcium Fluoride ($CaF_2$)

**Surface Quality:**
40-20

**Angle Tolerance (arcmin):**
±10

**Wavelength Range (nm):**
200 - 7000

**Wavelength Range (µm):**
0.2 - 7

**Surface Flatness (P-V):**
2λ

## Regulatory Compliance

**RoHS 2015:**
Compliant

**Certificate of Conformance:**
View

**Reach 240:**
Compliant

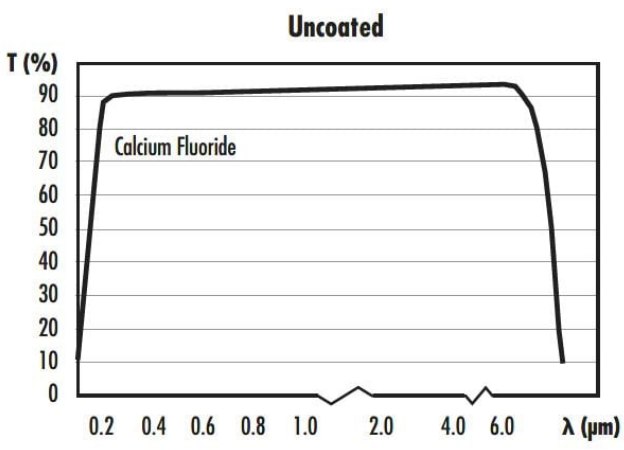
# Product Details

- $CaF_2$, 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**

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