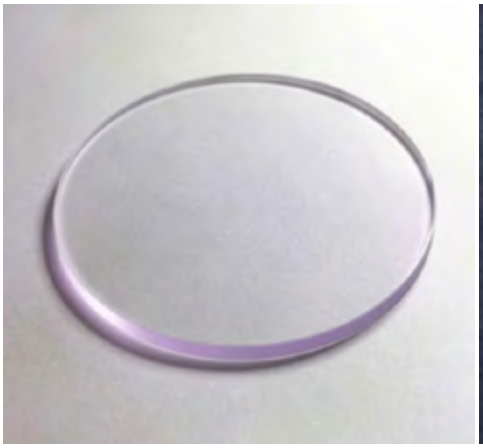
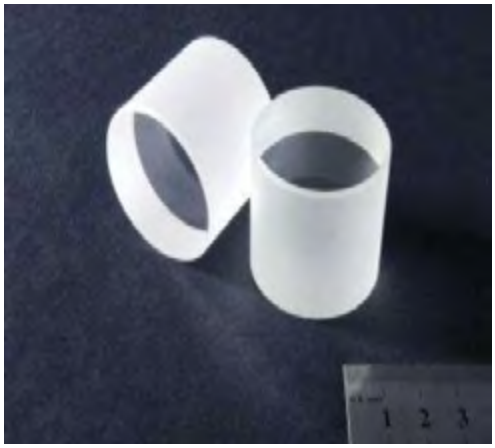
Electro Optical Components, Inc.
5460 Skylane Boulevard, Santa Rosa, CA 95403
Toll Free: 855-EOC-6300
www.eoc-inc.com | info@eoc-inc.com

Click to go to Product Selector

Eu:CaF_2 Crystal





Density (g/cm3)	3.18
Melting Point (°C)	1360
Hardness (Mohs)	4
Index of Refraction	1.47
Decay time (ns)	940
Wavelength of emission max (nm)	435
Light yield (Photons/MeV)	19000
Hygroscopicity	None

CaF2:Eu is a scintillation material that used for detecting hundreds keV low energy gamma rays and charged particles. Because of its low effective atomic number, limit it in application of high energy gamma-ray spectrometer, but makes it an ideal material for the detection of beta rays. Its refractive index is at 1.47, which is very close to most PMT windows' and optical coupling modules' refractive index, so it can obtain high light collection efficiency.

Key Features

- Non hygroscopic
- Gamma rays detection
- Charged particles detection

Applications:

- Low energy nuclear physics
- Radioactivity medical science diagnoses.