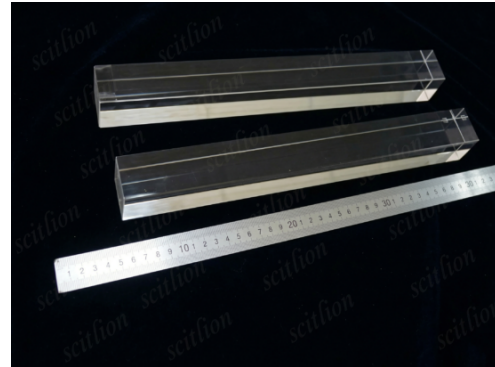


SCINTILLATION CRYSTALS

CaF₂(Eu) Scintillation Crystal

Product Brochure & Technical Reference

Europium-doped calcium fluoride for beta-particle and charged-particle measurements. Review thickness, entrance conditions, gamma contribution and optical readout for the detector design.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Property	Published value
Density (g/cm ³)	3.18
Crystal Structure	Cubic
Decay Constant (ns)	940
Cleavage Plane	(111)
Wavelength of Max Emission (nm)	435
Hygroscopicity	No
Light yield (photons/keV)	19
Light output relative to NaI(Tl), bialkali PMT reference (%)	50

Reference values and options for selection. Confirm the material grade, geometry, test conditions and acceptance criteria for the quoted configuration.

SCINTILLATION CRYSTALS

Configuration & quotation

Define the component around your application

Application examples: Beta particle detection; Charged-particle detection; Gamma-ray detection

CaF₂(Eu) Scintillation Crystal Specifications

Parameter	Typical Value / Option
Chemical formula	CaF ₂ :Eu
Crystal family	Fluoride scintillator
Typical application	Beta, charged-particle, and gamma detection
Readout compatibility	PMT or custom photosensor readout
Format	Custom polished crystals and detector components

CaF₂(Eu) Physical and Scintillation Properties

Property	Published value
Index of Refraction	1.47
Hardness (Mohs)	4

Prepare your quotation

RFQ input	Information to provide
Material / format	State the material or grade, crystal, screen, panel or bar format and intended application.
Geometry / finish	Provide a drawing, dimensions, tolerances, surface treatment and wrapping or support requirements.
Readout / acceptance	Give the optical readout arrangement and define the test conditions and acceptance criteria.
Order details	Provide quantity, destination and the required delivery schedule.

Reference values and options for selection. Confirm the material grade, geometry, test conditions and acceptance criteria for the quoted configuration.

Send drawings for engineering review

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Open product and inquiry page | Hangzhou, Zhejiang, China