



CRYSTAL MATERIALS INDEX

Europium-doped Calcium Fluoride

Properties	Value
Cleavage Planes	(111)
Decay Constant (ns)	1000
Density (g.cm-3)	3.18
Emission Spectral Range (nm)	400-500
Gamma and X-ray absorption coefficients (cm-1)	
Melting Point (K)	1691
Peak Scintillation Wavelength (nm)	435
Photons/MeV	20000
Radiation Length (cm)	3.5
Refractive Index at peak emission	1.47
Solubility (g/100g H ₂ O @ 300K)	Insoluble
Stability	Good
Structure	Cubic
Therman Conductivity (W·m-1·K-1) @ 300K	
Transmission Range (nm)	130-10000

CaF₂(Eu)

Widespread application as a non-hygroscopic crystal with application for low energy and particle detection.

(All data is for information only and believed to be correct. Hilger Crystals does not accept any liability otherwise.)