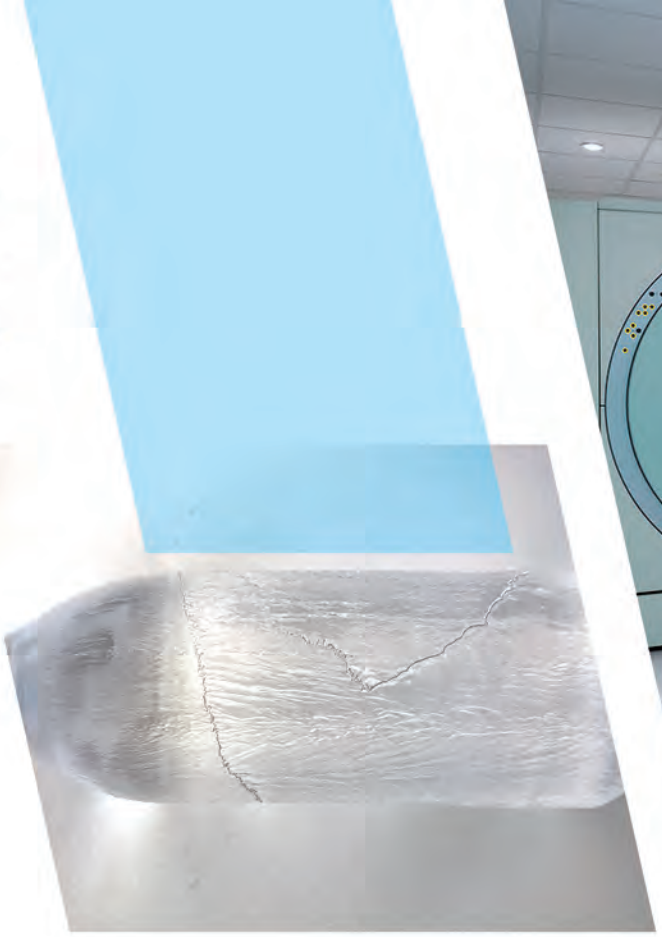

Scintillation Crystal Materials
Ce:LYSO

Cerium doped lutetium yttrium oxyorthosilicate (Ce:LYSO) crystal has advantages of high density, fast decay time, high light output, high energy resolution, etc. It is considered to be the substitute of NaI (Tl) and BGO, and these properties make LYSO an ideal candidate for SPECT, PET, high energy physics, nuclear physics, oil detection, security check, and environment check.

Specifications

Melting Point (°C)	2070
Density (g/cm^3)	7.2
Hygroscopic	None
Hardness (ns)	5.8
Wavelength of emission max. (nm)	420
Refractive index @ emission max	1.82
Decay time (ns)	<42
Energy resolution (%)	8.0
Light yield (photons/MeV)	>28000
Photoelectron yield (% of NaI (Tl)) (for γ-rays)	75

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