



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

Density	7.1 g/cm ³
Melting point	2050°C
Mohs hardness	64
Effective atomic number	5.8 Mohs
Refractive index	1.81
Light output	~85% to NaI[Tl]
Decay time	<42 ns
Emission center wavelength	420 nm