

LYSO(Ce) Scintillator

LYSO(Ce) is a new type of scintillation crystal, it has the excellent scintillation properties, like high light output, short decay time, high density and anti-radiation hardness, and with stable chemical and physical properties.

We now could grow the LYSO(Ce) crystal with $\varnothing 90$ mm x 200 mm length in high volume by Czochralski technique.

Beside the crystal growth, we have complete equipment for the further crystal processing, like the line cutting, inner circle cutting, polishing machines, also the stable matrix assembly capability.

Melting point[k]	Density (g/cm ³)	Cleavage plane	Hardness (Mho)	hygroscopic	Wavelength of emission Max[nm]	Refractive index @ emission Max	Primary decay time [ns]	Light yield [photons /keV _{γ}]	Photoelectron yield [%of NaI(Tl)] (for γ -rays)
2320	7.2	no	5.80	no	420	1.82	40	30	80

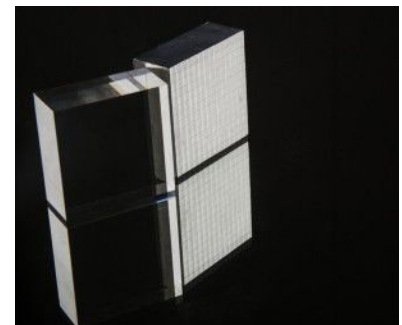
Features

High density

High yield of light

Fast decay time

Anti-irradiation damage strength



Application

Nuclear medicine

High energy physics

