



CRYSTAL MATERIALS INDEX

Lutetium Yttrium Silicate

Properties	Value
Cleavage Planes	None
Decay Constant (ns)	40
Density (g.cm-3)	7.1
Emission Spectral Range (nm)	380-480
Gamma and X-ray absorption coefficients (cm-1)	
Melting Point (K)	2323
Peak Scintillation Wavelength (nm)	420
Photons/MeV	32000
Radiation Length (cm)	1.15
Refractive Index at peak emission	1.81
Solubility (g/100g H ₂ O @ 300K)	Insoluble
Stability	Good
Structure	Cubic
Therman Conductivity (W·m-1·K-1) @ 300K	
Transmission Range (nm)	

LYSO(Ce)

A non-hygroscopic scintillator that is both bright and fast. Finds application where fast timing is needed such as PET and TOF PET.

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