



CRYSTAL MATERIALS INDEX

Yttrium Aluminium Garnet

YAG(Ce)

Properties	Value
Cleavage Planes	None
Decay Constant (ns)	70
Density (g.cm-3)	4.6
Emission Spectral Range (nm)	500-700
Gamma and X-ray absorption coefficients (cm-1)	
Melting Point (K)	2213
Peak Scintillation Wavelength (nm)	550
Photons/MeV	8000
Radiation Length (cm)	3.5
Refractive Index at peak emission	1.82
Solubility (g/100g H ₂ O @ 300K)	Insoluble
Stability	Good
Structure	Cubic
Therman Conductivity (W·m-1·K-1) @ 300K	12.9
Transmission Range (nm)	210-5500

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.)