



## CRYSTAL MATERIALS INDEX

### GLuGAG

### $(\text{Gd,Lu})_3(\text{GaAl})_5\text{O}_{12}(\text{Ce})$

Supplied as a sintered ceramic the material has high light yield and low afterglow.

Properties	Value
Cleavage Planes	None
Decay Constant (ns)	75
Density (g.cm-3)	6.8
Emission Spectral Range (nm)	450-650
Gamma and X-ray absorption coefficients (cm-1)	0.07 at 660KeV 12.6 at 100 KeV
Melting Point (K)	2203
Peak Scintillation Wavelength (nm)	545
Photons/MeV	50000
Radiation Length (cm)	1.26
Refractive Index at peak emission	1.81
Solubility (g/100g H <sub>2</sub> O @ 300K)	Insoluble
Stability	Good
Structure	Cubic (Crystal Form)
Therman Conductivity (W·m-1·K-1) @ 300K	
Transmission Range (nm)	450-750

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