



CRYSTAL MATERIALS INDEX

Gadolinium Aluminium Gallium Garnet - GAGG(Ce) ($Gd_3Al_2Ga_3O_{12}$)

Properties	Value
Cleavage Planes	None
Decay Constant (ns)	88
Density (g/cm ³)	6.63
Emission Spectral Range (nm)	475-800
Gamma and X-ray absorption coefficients (cm-1)	
Melting Point (K)	2123
Peak Scintillation Wavelength (nm)	540
Photons/MeV	57000
Radiation Length	
Refractive Index at peak emission	1.9
Solubility (g/100g H ₂ O @ 300K)	
Stability	Good
Structure	Cubic
Thermal conductivity (W-m-1-K-10 @ 300K)	
Transmission Range (nm)	

GAGG is a single crystal scintillator offering good light output, good energy resolution and fast decay time. Typical applications include gamma medical spectroscopy and medical imaging systems.

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