GAGG

 $(Gd_3Al_2Ga_3O_{12}(Ce))$

High light output & High energy resolution & Non hygroscopic nature Scintillator



| Product Information



Fig.1: Photograph of 3-inch-diameter GAGG scintillator. *1

^{*1} Kamada et al., J. Cryst. Growth, 452 (2016) 81-84.

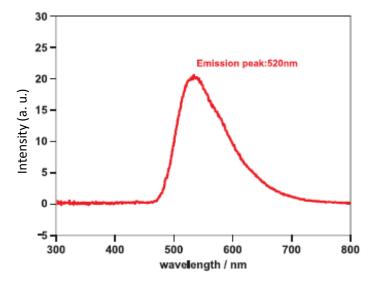


Fig.2: Radioluminescence spectra of GAGG excited by X-ray, $CuK\alpha$, 30mA, 40mV

Outline

GAGG scintillator has high light output, high energy resolution and high density among oxide scintillators. GAGG has no hygroscopic and no self radiation nature.

3-inch-diameter GAGG bulk single crystal is available now.

Scintillation Properties*2

Light output [photons/MeV]	50,000- 56,000
Energy resolution*3 (662 keV, FWHM) [%]	5-6
Decay time [ns]	92ns(86%), 174ns(14%)
Emission wavelength [nm]	520
Density [g/cm³]	6.63

^{*2} All properties were measured using 5 x 5 x 5 mm³ sample.

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Crystals and Applications

C&A Corporation

Single Crystal Growth Service Consulting of crystalline business Scintillator crystals, arrays and scintillation detectors Piezoelectric crystals and piezoelectric devices

^{*3} Energy resolution was measured with APD.