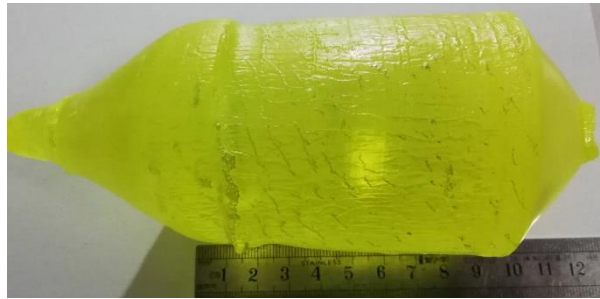


Cerium doped Gadolinium Aluminium Gallium Garnet - GAGG(Ce)



GAGG(Ce: $Gd_3Al_2Ga_3O_{12}$) - Cerium doped Gadolinium Aluminium Gallium Garnet, is a relatively new type of single crystal scintillator. It is one of the brightest available scintillators with an emission wavelength of 560nm. In addition to its high performance properties, GAGG(Ce) is also physically rugged which makes it easy to handle and well suited for a broad range of applications.

Radanite Group

We offer high quality CsI(Tl), CsI(Na), CsI(Pure), NaI(Tl) and GAGG(Ce) scintillation crystals of various shapes and sizes as well as pixelated arrays. We have full capability to cut, shape, polish and coat the crystals as well as couple with silicone photodiode in order to meet your specific requirements.

Contact Details

 www.radanite-group.com
 contactus@radanite-group.com
 +86 156-0128-1290
 radanite

GAGG(Ce) scintillators have the following features:

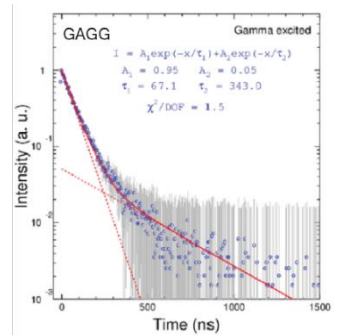
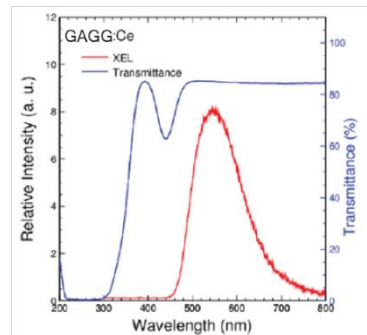
- High light output
- High energy resolution
- High density
- Rapid decay
- No self-radiation
- Non-hygroscopic

Typical applications for GAGG(Ce) scintillators include:

- CT, PET, and SPECT
- Gamma spectroscopy
- Compton electron detection Dose rate monitors

Properties:

Density (g/cm^3)	6.63
Effective atomic number	54.4
Maximum emission wavelength (nm)	560
Radiation length (cm)	1.62
Light yield (photons/KeV)	57
Decay time (ns)	67
Thermal expansion coefficient ($^{\circ}C^{-1}$)	TBA
Melting Point ($^{\circ}K$)	2123
Hardness (Mohs)	8
Scintillation afterglow (100ms)	270 ppm
Hygroscopic	No



Manufacturer reserves the right to alter specifications.
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