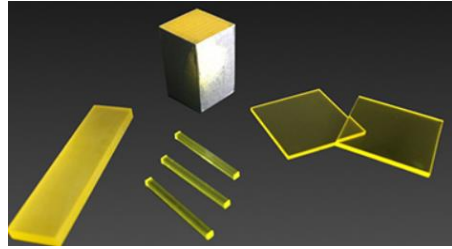


**Ce:GAGG cerium doped gadolinium aluminum gallium garnet :**

**Ce:GAGG cerium doped gadolinium aluminum gallium garnet**

Ce:GAGG cerium-doped gadolinium aluminum gallium garnet is a relatively new single crystal scintillator with many properties such as high light yield, high density, good energy resolution, emission peaks well matched to silicon sensors, low Intrinsic Energy Resolution.



**Main features:**

- High light output
- high energy resolution
- high density
- no self-radiation
- No deliquescence

**Typical application:**

Computed tomography (CT), positron emission tomography (PET), single photon emission computerized tomography (SPECT), particle accelerators, X-ray and gamma-ray detection, nuclear radiation sensing, industrial security inspection, high-energy physics and other fields .

**Material properties:**

molecular formula	Ce:Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub>
density	6.63g/cm <sup>3</sup>
hardness	8 Mohs
melting point	1850°C
atomic number	54.4
growth method	Czochralski
Thermal expansion coefficient	TBA* 10 <sup>-6</sup>

**Product parameters:**

Orientation accuracy	<0.5°
size	Customized
tolerance	±0.05mm
Parallelism	<30"
Perpendicularity	<15'
smoothness	10-5
Clear aperture	>90%
Chamfer	<0.1mm @45°