

Note: Above parameters for reference only, please contact our sales Rep. for your specific requirement.

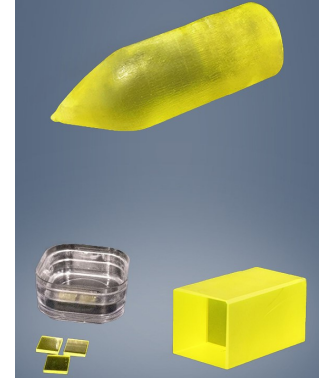
Cerium doped Gadolinium Aluminum Gallium Garnet

Introduction:

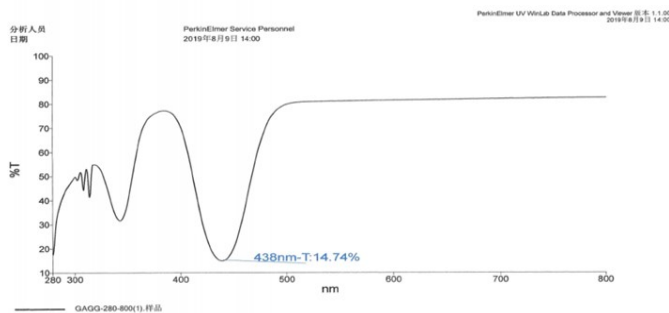
Ce:GAGG is a relatively new single scintillation crystal with many properties, such as high light yield, high density, good energy resolution, good emission peak matching with silicon sensor and low intrinsic energy resolution. In addition, the material is non-hygroscopic and non-self-radiative, which is widely used in PET, PEM, SPECT, CT, X and Y ray detection and so on.

Main Advantages:

- ✧ High light output
- ✧ High energy resolution
- ✧ High density
- ✧ No self-radiation
- ✧ No deliquescing



Transmission Curve:



Typical applications:

- Computed tomography scan (CT)
- Positron emission tomography (PET)
- Single-photon emission computed tomography imaging (SPECT)
- particle accelerator
- X-ray and y-ray detection


Material Properties:

| | |
|-----------------------|---|
| Chemical Formula | Ce: Gd ₃ Al ₂ Ga ₃ O ₁₂ |
| Density | 6.63g/cm ³ |
| Hardness | 8 Mohs |
| Melting Point | 1850°C |
| Atomic Number | 54.4 |
| Growth Method | Czochralski |
| Expanding Coefficient | TBA*10 ⁻⁶ |


Crystro Offers:

| | |
|------------------------------|-------------|
| Orientation | < 0.5° |
| Thickness/Diameter Tolerance | ±0.05mm |
| Parallelism | < 30" |
| Perpendicularity | < 15' |
| Surface Quality | 10-5 |
| Clear Aperture | > 90% |
| Chamfer | < 0.1mm@45° |
| Dimensions | Max Φ 60mm |

Anhui Crystro Crystal Materials Co., Ltd.

 Building A, No. 176, Yun'er Road, Hefei Economy and Technology Development Zone, Hefei City, China

 www.crystro.cn

 sales@crystro.com