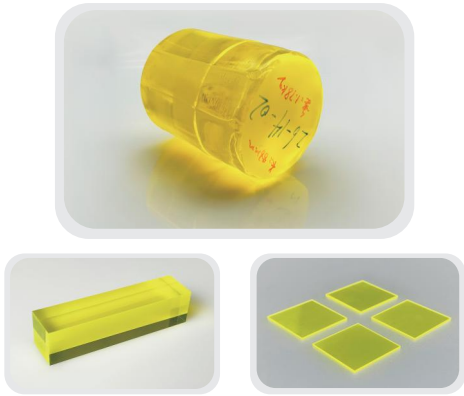


YAG(Ce) Scintillator



YAG(Ce) is a non-hygroscopic, chemically inert inorganic scintillator. The wavelength of the maximum emission at 550 nm is well matched to CCD sensitivity. YAG(Ce) is a reasonably fast scintillator with a relative light yield of 35% of NaI(Tl).

Basic Information

- Growth method: Czochralski
- Cerium content: 0.2-0.4at%
- Dimension(max): \varnothing 80 mm x 200 mm
- Achieved items: single crystals, Al and ITO coating

General Properties

Density(g/cm ³)	4.56
Decay time(ns)	75
Light output(Photons/Mev)	14,000
Melting point(K)	2,243
Wavelength of emission peak(nm)	550
Hardness(Mho)	8.50
Refractive index	1.82
Hygroscopic	no
Cleavage plane	no

Feature

- High density
- High temperature resistance
- Stable physical and chemical properties
- No hygrscopic & cleavage
- High light output
- Fast decay time

Application

- ⊙ X-ray imaging screen
- ⊙ Electron microscopy
- ⊙ Light particle detection
- ⊙ Aplha particle and gamma ray detection
- ⊙ PEM/SEM

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