

YAP(Ce) Scintillator



Cerium doped Yttrium Aluminum Perovskite(YAP:Ce) has fast decay time (28 ns) and relatively high light yield(40% of NaI:TI), the emission peak is on 360-380 nm range, it has very low energy secondary X-ray emission, which is of advantage in imaging application.

Basic Information

- Growth technique: Czochralski
- Dimension(max): Ø 50 mm x 200 mm
- Achieved items: single crystals, Aluminum and ITO coating

General Properties

Density(g/cm ³)	5.40
Decay time(ns)	28
Light output(Photons/Mev).	15,000
Melting point(K)	2,148
Wavelength of emission peak(nm)	370
Hardness(Mho)	8.50
Refractive index	1.95
Hygroscopic	no
Cleavage	no

Feature

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

Application

- ⊙ X-ray imaging screen
- ⊙ Oil well logging
- ⊙ Small animal PET
- ⊙ Alpha particle and gamma ray detection
- ⊙ PEM/SEM

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