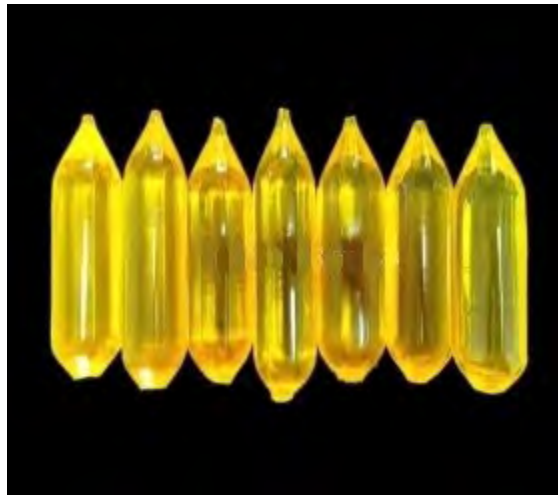




Ce:YAG Crystal



Density (g/cm ³)	4.56
Melting Point (°C)	1970
Hardness (Mohs)	8.5
Decay time (ns)	70
Effective Atomic Number	32
Peak Emission (nm)	550
Light yield (Photons/MeV)	15000
Light output (to NaI:TI)	40%
Refractive index	1.82
Hygroscopicity	None
Energy resolution	<8%

Ce:YAG crystal has excellent mechanical properties and chemically resistant, it can be used in the detection of extreme environment, and enable to produce with thin screens. It also has high luminous efficacy, and its peak emission (550nm) can effective coupling with silicon photodiode detector devices.

Key Features

- Mechanical resistance and stability
- Good thermal conductivity
- Fast decay time
- Non- hygroscopicity

Applications:

- Low energy radiation & Alfa particle detection
- Electron and X-ray imaging screens
- Beta and X-ray counting