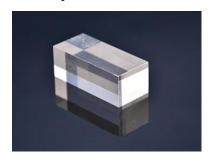


YSO(Ce) Scintillators

Cerium doped Silicate Yttrinm YSO(Ce) has an emission maximum at 420nm which belongs to monoclinic rare earth orthosilicate crystal. it has similar decay time with LYSO(Ce) (50-70ns), but it has no background (Lutecium), which need to be removed in some precise detection field.





Features:

- High light output
- High density and anti-radiation hardness
- Short decay time
- Stable chemical and physical properties
- No background radiation(Lutecium)

Ability:

Growth method: Czochralski

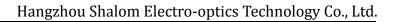
• Maximum dimension: ϕ 80mm × 160mm

Available items: single crystals and arrays

Basic Properties:

Basic Properties	
Density(g/cm³)	4.50
Melting Point (K)	2273
Refractive Index	1.8
Emission Peak(nm)	420
Decay Time (ns)	50-70
Light Output (photons/Mev)	10000
Effective Atomic Number (z)	39
Hygroscopic	None
Cleavage Plane	None

Note: The crystal boules, blanks and polished elements are available.





Application Notes:

- Radiation detection
- Security industry
- Semiconductor
- Photo optic application
- Positron emission tomography (PET)
- Nuclear medicine