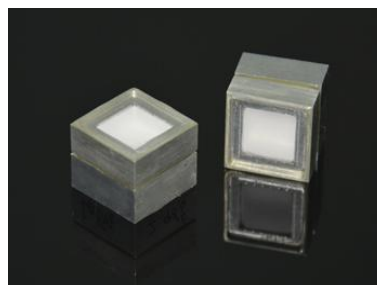


LaCl₃(Ce) Scintillators

LaCl₃(Ce) crystals belong to hexagonal system, the light output of LaCl₃:Ce crystals is similar to the NaI(Tl) crystals, the decay time is 28ns, only 1/10 of NaI:Tl, the energy resolution is 1/2~2/3 of NaI(Tl) crystals, they also have a good mechanical properties. In addition, LaCl₃:Ce crystals excellent temperature performance, they have a good consistency of energy resolution within a wide temperature range.



Features:

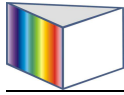
- High light output
- Excellent energy resolution
- Fast decay time
- High count rate capabilities
- Excellent radiation hardness

Ability:

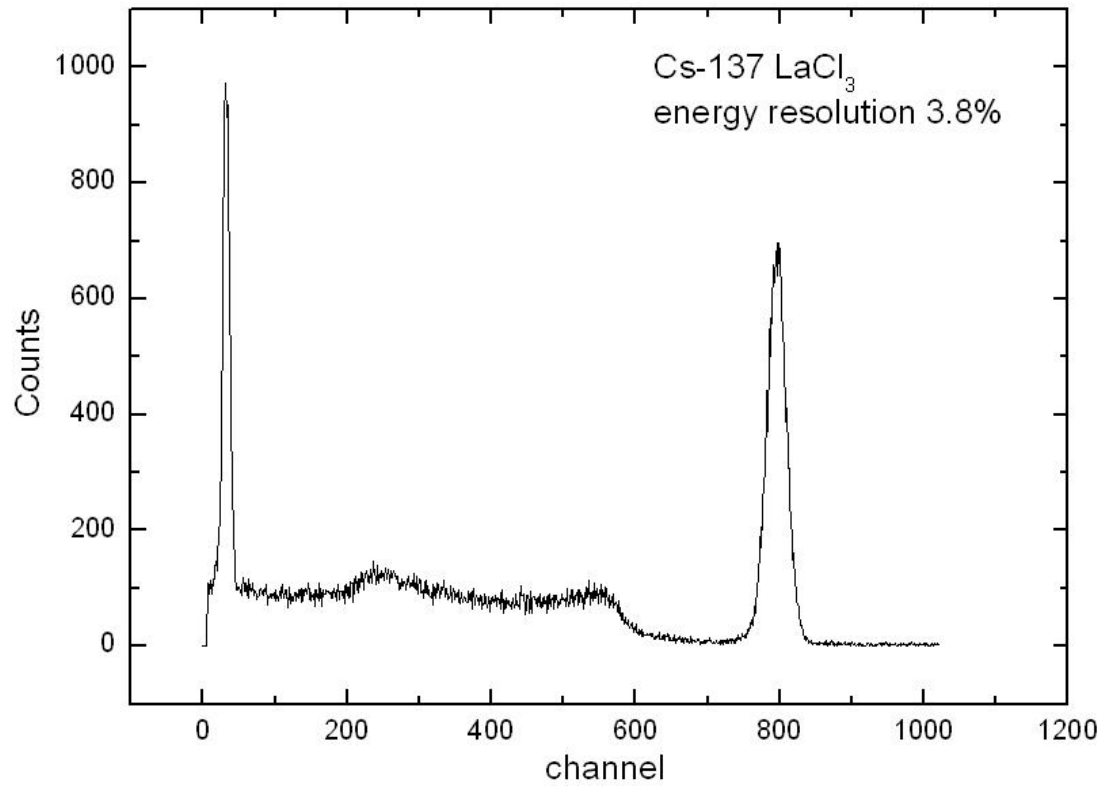
- Formula: LaCl₃(Ce)
- Maximum dimension: ∅ 75 mm x 75 mm
- Available items: single crystals with Aluminum housing and optical windows

Basic Properties:

Basic Properties	
Melting Point (°C)	1135
Density (g/cm ³)	3.85
Hygroscopic	Yes
Wavelength of Emission Max. (nm)	350
Decay time (ns)	<28
Energy Resolution (%)	3.5~4
Light Yield (photons/MeV)	40000
Cleavage Plane	<100>
Refractive Index @ Emission Max.	1.9



Spectrum of the LaCl₃(Ce) Scintillators



Application Notes:

- High energy physics
- Nuclear radiation detection
- Oil well logging