

## CeBr3 Scintillators

CeBr<sub>3</sub> crystals have the advantages of low background, high energy resolution, high light output, high energy non-linearity, short decay time and excellent time resolution, they have a wide application prospect in environment monitoring, oil well logging, nuclear medicine, high-energy physics, security, counter-terrorism, nuclear identification , etc.



### Features:

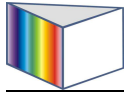
- High light output
- Excellent energy resolution
- Fast decay time
- High count rate capabilities
- Excellent radiation hardness
- Low background

### Ability:

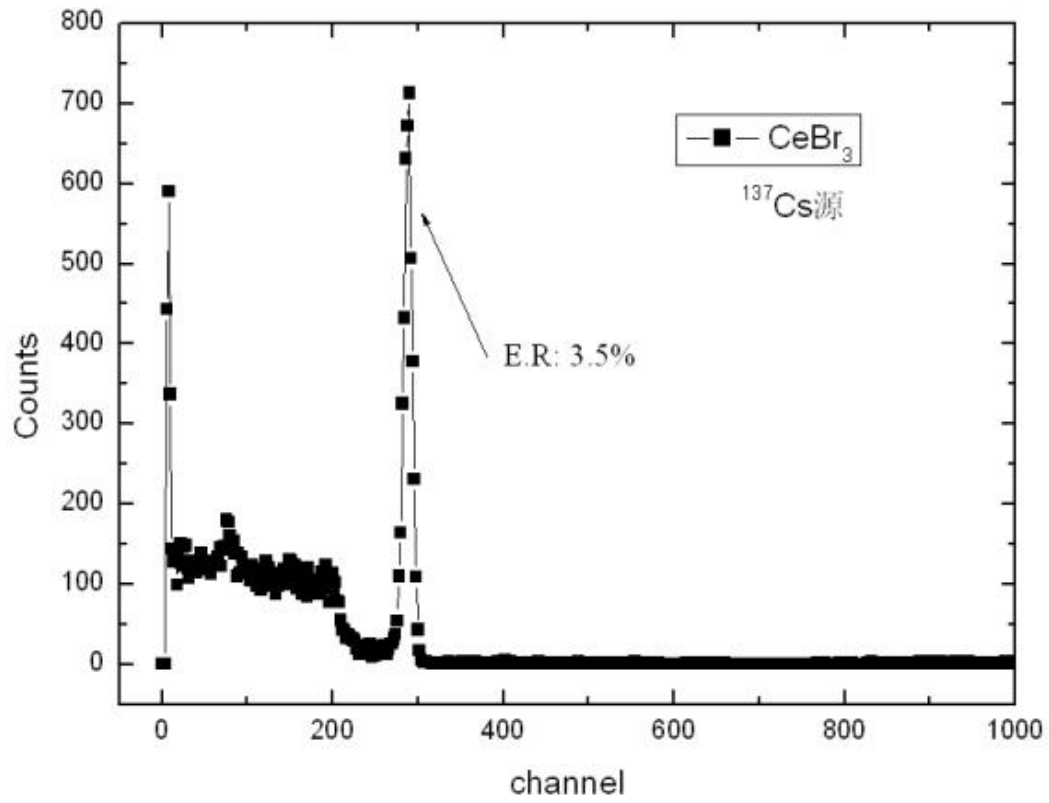
- Formula: CeBr<sub>3</sub>
- Maximum dimension: ∅ 50 mm x 50 mm
- Available items: Single crystals with Aluminum housing and optical window

### Basic Properties:

Basic Properties	
Melting Point (°C)	722
Density (g/cm <sup>3</sup> )	5.1
Hygroscopic	Yes
Wavelength of Emission Max. (nm)	360~385
Decay time (ns)	<20
Energy resolution (%)	4~5
Light Yield (photons/MeV)	60000



Spectrum of the CeBr<sub>3</sub> Scintillators



Application Notes:

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