

CsI(Tl) Scintillator

Thallium doped cesium iodide, CsI(Tl), is one of the brightest scintillator, its emission peak was at 550 nm, which was matched well with photo-diode, thus the read-out system can be much simplified.

We have unique crystal growth process, reliable processing technology and specialized packing method, all of these would ensure the excellent properties of the crystal, and reduced the impact from the environment to the minimum. Now we can grow the crystal with the maximum dimension of \varnothing 93 mm x 300 mm length by Bridgman technique.

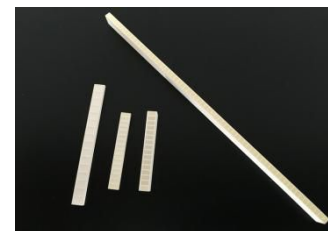
Besides the single crystal, we also design and develop high-resolution and highly sensitive scintillation crystal arrays to achieve excellent image quality, the challenge is to develop a finely pixelated scintillation crystal array with high detection efficiency.

Scintillation Crystal	Light output % of NaI(Tl)	Decay time (ns)	Wavelength of emission maximum (nm)	Refractive index	Density (g/cm ³)	hygroscopic	Hardness (Mho)	Melting Point(k)
CsI(Tl)	45	1050	550	1.80	4.51	Slightly	2	894

Features

High light output

Emission peak 550 nm, matched the Photo-diode well



Application

Nuclear radiation detection

High energy physics field

Security inspection field

