

Sodium doped cesium iodide, CsI(Na), has a relatively high output, around 85% of NaI(Tl), its emission peak is at 420 nm and is well matched to the photomultiplier(PMT), which make it well suited for well logging, space research or other applications where severe shock conditions are encountered.

## Basic Information

- Growth technique: Bridgman
- Dimension(max):  $\varnothing$  93 mm x 300 mm
- Achieved items: crystal blank and encapsulated

## General Properties

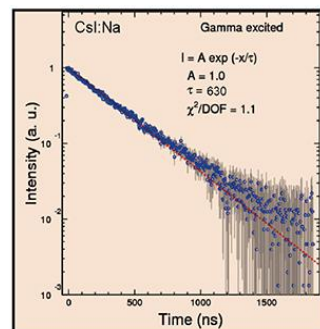
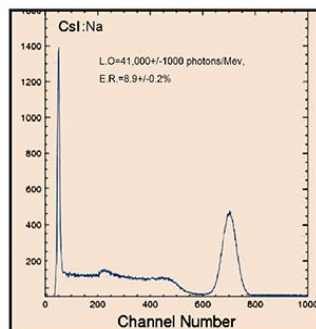
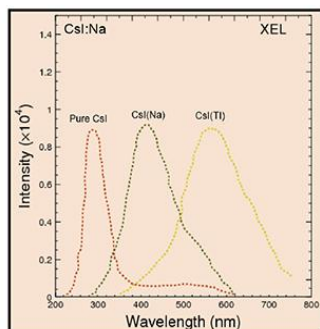
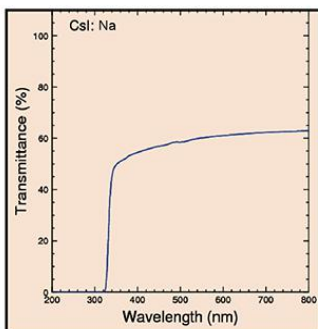
Density(g/cm <sup>3</sup> )	4.51
Melting point(K)	894
Wavelength of emission peak(nm)	420
Light output(Photons/Mev)	41,000
Decay time(ns)	630
Cleavage plane	No
Hygroscopic	Yes
Refractive index	1.84
Hardness(Mho)	2

## Characterization

Dimension of CsI(Na): 38x45x45 mm

PMT: R6233; Reflector: Teflon(0.80 mm thickness); Radiation source: Cesium<sup>137</sup>; HV: 650V

Absolute value of light output: 41,000 photons/Mev; Energy resolution: 8.9%; Decat time: 630 ns



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