

## CsI(Na) Crystals

Sodium doped Cesium Iodide or CsI(Na) CsI(Na) has a wavelength of emission peak at 420nm and is well matched to the photocathode sensitivity of bialkali photomultiplier and has a light output yielding to 85% of NaI(Tl). Compared to NaI(Tl), it is a relatively soft and plastic material without cleavage plan which makes the material interesting where severe environmental conditions are encountered.





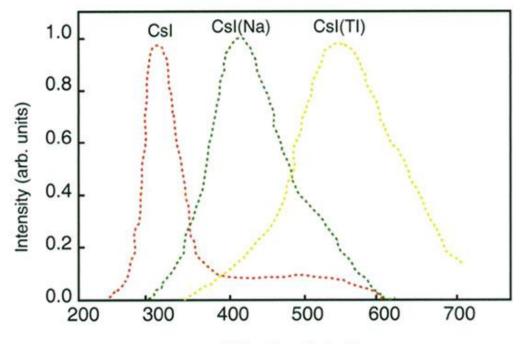
## Features:

- High γ-ray stopping power
- High density and atomic number
- Well-suited for well logging, space research and other harsh environment applications

## **Basic Properties:**

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Density(g/cm³)	4.51
Melting Point (K)	894
Cleavage Plane	None
Hardness (Mohs)	2
Hygroscopic	Yes
Refractive Index at Emission Peak	1.84
Emission Peak Wavelength (nm)	420
Lower Wavelength Cutoff (nm)	300
Decay Time (ns)	630
Light Yield (Photons/KeV)	41
Photoelectron Yield (% of NaI(Tl))	85

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



Wavelength [nm]
Scintillation Emission Spectrum of
CsI, CsI(Na) and CsI(TI)