

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/cm ³) | 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.

