

SCINTILLATION CRYSTALS | MATERIAL SELECTION

CsI(Na) Scintillation Crystal

Product Brochure & Technical Reference

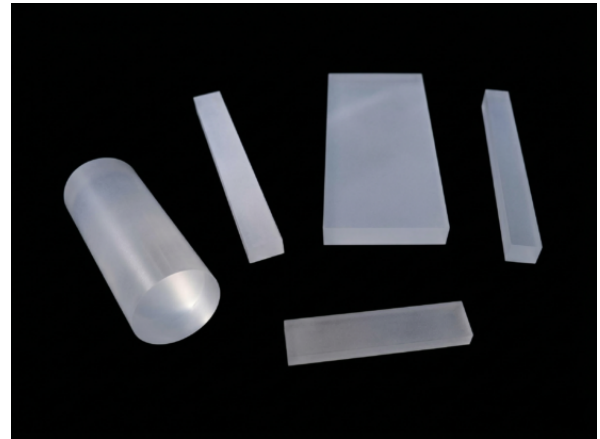
Sodium-activated cesium iodide for gamma detection and spectroscopy. Define crystal geometry, moisture protection and the optical interface for your instrument.

Published application examples

Well logging, nuclear physics, environmental monitoring and industrial gauging.

Readout selection

The blue emission band is relevant to bialkali PMT selection. Confirm the complete optical interface and sensor response.



Reference product image. Shown geometry is illustrative.

Material reference properties

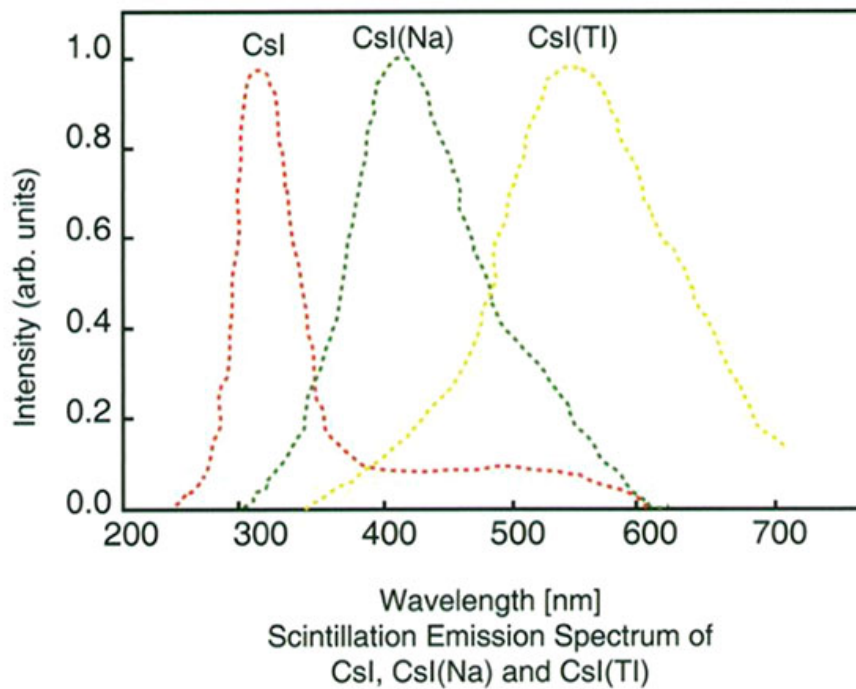
Property	Published reference value
Relative light output, NaI(Tl) = 100%	85%
Scintillation decay time	630 ns
Peak emission wavelength	420 nm
Refractive index at peak emission	1.80
Density	4.51 g/cm ³
Hygroscopic	Yes
Mohs hardness	2
Afterglow	0.5-5% at 6 ms
Light yield	41 photons/keV

Reference values for selection. Confirm material grade, test conditions and acceptance criteria in the quotation. Define the afterglow requirement together with its test method.

OPTICAL REFERENCE | CONFIGURATION INPUTS

Emission spectrum & quotation

Optical reference for readout selection



Reading the spectrum

Reference emission spectra of CsI, CsI(Na) and CsI(Tl). The CsI(Na) band is in the blue spectral region.

Intensity is shown in arbitrary units. Curve heights should not be used to compare absolute light yield.

Material reference curve for selection. Confirm final performance and test conditions for the quoted configuration.

Prepare your quotation

01 Geometry & housing

Send the crystal shape, dimensions, tolerances and drawing. Define the housing, optical window and mounting.

02 Optical interface

Specify the coupling face, finish, reflector and sensor model. State the radiation type and energy range.

03 Tests & order

Give temperature, moisture, shock and vibration conditions, acceptance tests, quantity and delivery needs.

Send drawings for engineering review

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Open product and inquiry page | Hangzhou, Zhejiang, China