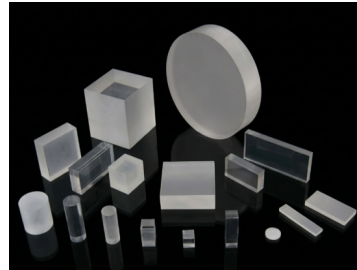


SCINTILLATION CRYSTALS

CsI(Tl) Scintillation Crystal

Product Brochure & Technical Reference

Thallium-doped cesium iodide scintillation components for radiation detection and imaging. Review optical response, grade-dependent timing and afterglow alongside the readout arrangement.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Parameter	Listed value / option
Listed maximum size	Phi 120mm x 400mm
Available items	monolithic crystal, scintillation screen, linear or 2-D array
Scintillation decay time (ns)	1000
Emission peak wavelength (nm)	550
Refractive index at emission peak	1.8
Density (g/cm ³)	4.51
Hygroscopicity	Slight
Mohs hardness	2

Available material grades

Material grade	Relative light output vs NaI(Tl)	Light yield (photons/keV)	Decay time	Afterglow
Low afterglow type	40%	48	1000 ns	0.05~0.39%@20ms
Standard type	45%	54	1000 ns	0.5~5%@6ms

The afterglow entries use different delay times. Compare requirements under a matched test method.

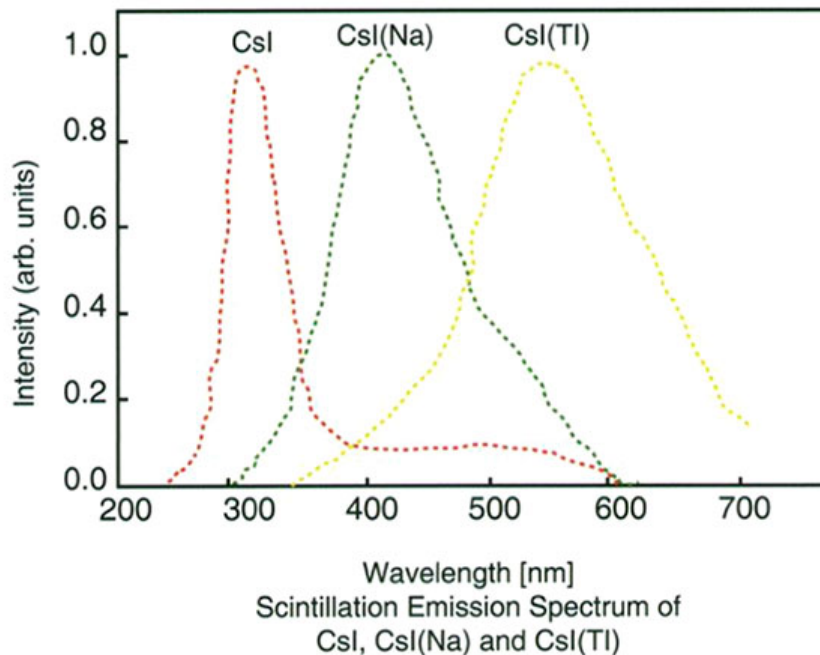
Reference values and options for selection. Confirm the material grade, geometry, test conditions and acceptance criteria for the quoted configuration.

SCINTILLATION CRYSTALS

Configuration & quotation

Define the component around your application

Emission spectrum



Reading the reference

Reference emission spectra of CsI, CsI(Na) and CsI(Tl). The green CsI(Tl) emission band is relevant to photodiode readout. Intensity is in arbitrary units; graph heights do not compare absolute light yield.

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

Prepare your quotation

01 Grade & geometry

Specify standard or low-afterglow grade. Send the crystal shape, dimensions, tolerances, finish and drawing.

02 Optical interface

Define the sensor, coupling face, reflector, window and optical collection arrangement.

03 Tests & order

Define radiation and operating conditions, afterglow test method, acceptance criteria, quantity and delivery needs.

Reference values and options for selection. Confirm the material grade, geometry, test conditions and acceptance criteria for the quoted configuration.

Send drawings for engineering review

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