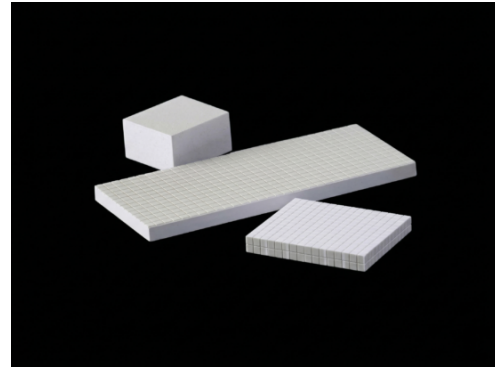


SCINTILLATOR ARRAYS

CsI(Tl) Array

Product Brochure & Technical Reference

CsI(Tl) scintillator arrays for radiation detection and imaging. Define the crystal grade, pixel geometry, reflector and optical readout, with afterglow requirements tied to a test method.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Parameter	Typical Value / Option
Chemical formula	CsI:Tl
Density	Approx. 4.51 g/cm ³
Emission peak wavelength	Approx. 550 nm
Decay time	Approx. 1000 ns, with application-dependent afterglow
Hygroscopicity	Slightly hygroscopic; packaging requirements depend on environment
Typical use	X-ray imaging and gamma detection arrays
Refractive Index (peak wavelength)	1.8
Mohs hardness	2

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

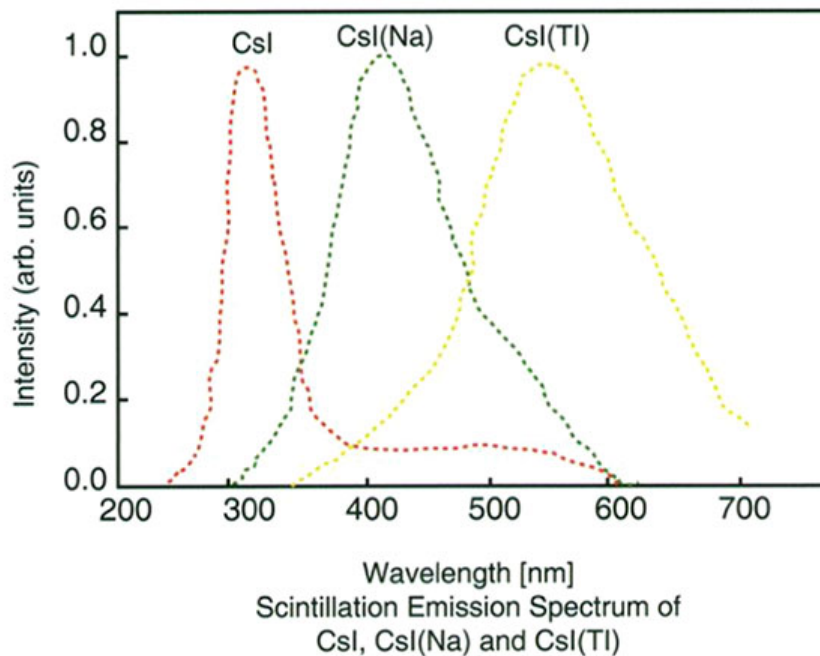
SCINTILLATOR ARRAYS

Configuration & quotation

Define the component around your application

Application examples: X-ray imaging detector arrays; Security inspection systems; Medical and industrial CT detector research

Material emission spectrum



Reading the reference

Reference CsI, CsI(Na) and CsI(Tl) spectra for optical selection. Specify the sensor, pixel geometry, optical separation and grade-dependent acceptance tests for the array.

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

CsI(Tl) Scintillator Array Specifications

Material	Thickness of reflector material + adhesive
TiO ₂	≥0.1 mm
Teflon	0.15 - 0.5 mm

CsI(Tl) Scintillator Array Specifications

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

Prepare your quotation

RFQ input	Information to provide
Pixel geometry	Provide pixel cross-section, length, count, pitch, layout and finished envelope.
Optical construction	Specify reflector or separator, coupling face, surface finish and bonding requirements.
Readout / acceptance	Give the sensor model or interface and define the required test and acceptance method.
Order details	Provide quantity, drawing, intended application and delivery requirements.

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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Open product and inquiry page | Hangzhou, Zhejiang, China