

SCINTILLATION CRYSTALS

YAG(Ce) Scintillation Crystal

Product Brochure & Technical Reference

Cerium-doped yttrium aluminum garnet for electron and X-ray imaging screens and scintillation components. Specify the active area, thickness, support and optical readout.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Property	Published value
Density (g/cm ³)	4.55
Hygroscopic	No
The wavelength of emission max. [nm]	550
Refractive index @ emission max	1.82
Decay time [ns]	70
Relative light output of NaI(Tl) (%)	40
Light yield (photons/keV)	30
Thickness to stop 50% of 662 keV photons (cm)	2

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

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Configuration & quotation

Define the component around your application

Application examples: Electron microscopy screens; X-ray imaging screens; Charged-particle detection

YAG(Ce) Scintillation Crystal Specifications

Parameter	Typical Value / Option
Chemical formula	Y ₃ Al ₅ O ₁₂ :Ce
Crystal structure	Garnet
Hygroscopicity	Non-hygroscopic
Typical use	Electron and X-ray imaging screens
Formats	Crystal, screen, and custom detector component

Material reference properties

Property	Published value
Hardness (Mohs)	8.5

Prepare your quotation

RFQ input	Information to provide
Material / format	State the material or grade, crystal, screen, panel or bar format and intended application.
Geometry / finish	Provide a drawing, dimensions, tolerances, surface treatment and wrapping or support requirements.
Readout / acceptance	Give the optical readout arrangement and define the test conditions and acceptance criteria.
Order details	Provide quantity, destination and the required delivery schedule.

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