

SCINTILLATION CRYSTALS

CdWO4 Scintillation Crystal

Product Brochure & Technical Reference

Cadmium tungstate scintillation components for radiation and X-ray detector projects. Review thickness, optical finish, readout and afterglow requirements for the measurement cycle.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Parameter	Listed Value / Option
Listed maximum size	Diameter 80 mm x length 200 mm
Relative light output vs NaI(Tl)	30%-50% with a bialkali PMT
Scintillation decay time (ns)	14,000
Emission peak wavelength (nm)	475
Refractive index at emission peak	2.3
Density (g/cm ³)	7.9
Hygroscopicity	Non-hygroscopic
Light yield (photons/keV)	12-15

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

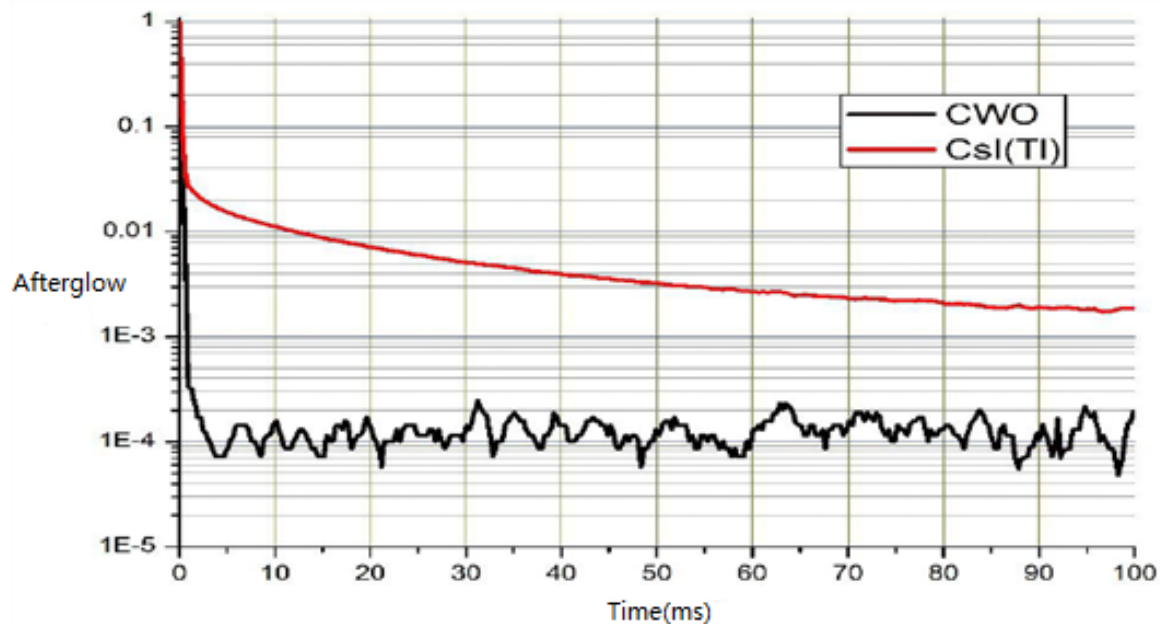
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Configuration & quotation

Define the component around your application

Application examples: Industrial computed tomography (CT) scanners; Medical computed tomography (CT) scanners; Security inspection

Afterglow reference



Reference afterglow comparison of CWO and CsI(Tl), with time in milliseconds and a logarithmic afterglow axis. Confirm excitation, measurement delay and the evaluation method for the quoted crystal.

CdWO4 Scintillation Crystal Specifications

Parameter	Listed Value / Option
Available formats	Monolithic crystal, linear or 2D array
Mohs hardness	4.5
Afterglow	<0.01% at 20 ms
Radiation length (cm)	1.0

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