

Cadmium Tungstate(CdWO₄) is a scintillation crystal with extremely low afterglow, good radiation resistance, high density and high Z value together with relatively high light output, it has been widely used in the security inspection, medical X-CT and other industries.

Basic Information

- Growth technique: Bridgman
- Dimension(max): Ø 80 mm x 200 mm
- Achieved items: single crystal, linear and 2 dimensional array

General Properties

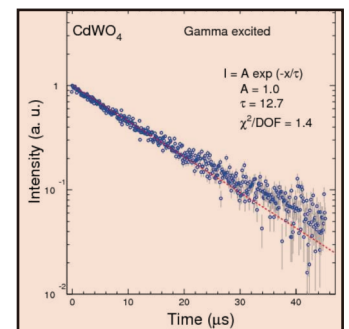
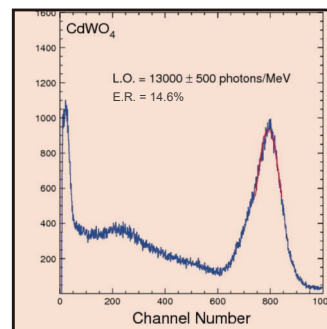
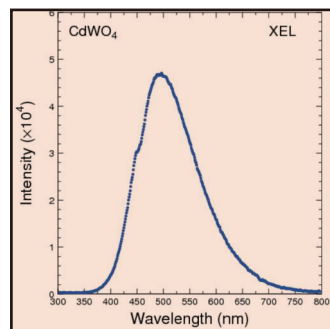
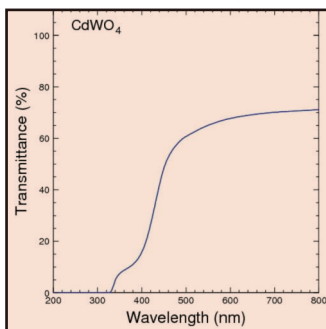
Density(g/cm ³)	7.90
Wavelength of emission peak(nm)	475
Light output(Photons/Mev)	13,000
Decay time(ns)	12,700
Hardness(Mho)	4.0-4.5
Refractive index	2.2-2.3
Hygroscopic	No
Cleavage plane	<010>
Thermal expansion coefficient{K ⁻¹ }	10.2x10 ⁻⁶

Characterization

Dimension of CWO: 16 x 16 x 16 mm

PMT: R1306; Reflector: Teflon(0.80 mm); Radiation Source: Cesium¹³⁷; HV: 650V

Absolute value of light output: 13,000 photons/Mev; Energy resolution: 14.6%; Decay time: 12,700 ns



Scintillation decay curve by gamma ray excited

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