

MarkeTech CWO (Cadmium tungstate, CdWO₄) Scintillator Crystal

Category : Ceramic , Oxide

Material Notes:

Cadmium tungstate CdWO₄ (CWO), due to its low intrinsic background and afterglow together with sufficiently high light yield, is the most promising for spectrometry and radiometry of radio nuclides under extremely low activities, and also for computer tomography. Technology of its production is also well developed. Data provided by the supplier, MarkeTech International.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-CWO-Cadmium-tungstate-CdWO4-Scintillator-Crystal.php

Physical Properties	Metric	English	Comments
Density	7.90 g/cc	0.285 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	4.0 - 4.5	4.0 - 4.5	

Thermal Properties	Metric	English	Comments
CTE, linear	10.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.67 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
Melting Point	1325 $\text{Å}^\circ\text{C}$	2417 $\text{Å}^\circ\text{F}$	

Descriptive Properties	Value	Comments
Crystal Structure	Monoclinic	
Hydroscopic?	No	
Luminescence: Afterglow	0.1 percent	at 6 ms
Luminescence: Decay Constant	5000 n/s	
Luminescence: Integrated Light Output	35-40	NaI:Tl = 100
Luminescence: Photon Yield	28	300K; 10 ³ pH/MeV
Luminescence: Radiation Length	1.06 cm	
Luminescence: Wavelength of max emissions	490 nm	

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