

MarkeTech Zinc Selenide:Tellurium (ZnSe:Te) Scintillator Crystal

Category : Ceramic , Sulfide/Chalcogenide

Material Notes:

ZnSe(Te) single crystals are characterized by the unique combination of high conversion efficiency, intrinsic luminescence in the red region of spectrum, high thermal and radiation stability; they are not hygroscopic, and afterglow is practically absent. Production technology has been developed of "fast" and "slow" scintillation crystals with different decay times and intrinsic luminescence maximum wavelengths. ZnSe(Te) crystals are not toxic, moisture-resistant, conserve working parameters after gamma-irradiation up to 107 Rad and continuous heating up to 400 K. These qualities make ZnSe(Te) an excellent material for multi-purpose ionizing radiation detectors of the "scintillator-silicon photodiode" type. They are used for radiation monitoring, medical and technical tomography, X-ray medical devices, non-destructive testing systems, customs inspection, spectrometry of alpha- and beta-radiation, as well as soft X-rays. Data provided by the supplier, MarkeTech International.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-Zinc-SelenideTellurium-ZnSeTe-Scintillator-Crystal.php

Physical Properties	Metric	English	Comments
Density	5.42 g/cc	0.196 lb/in ³	

Thermal Properties	Metric	English	Comments
Melting Point	1779 Â°C	3234 Â°F	

Descriptive Properties	Value	Comments
Luminescence: Afterglow	<0.05%	at 6 ms
Luminescence: Photon Yield	8	300K; 10 ³ pH/MeV

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