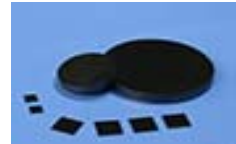




Silicon Crystal & Compound Semiconductor

↘ Cadmium Telluride (CdTe) Substrate

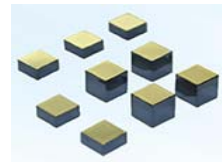
Cadmium Telluride Substrate is a semiconductor of high purity Cadmium and Tellurium, which can be widely used for PIN semiconductor structure manufacturing, electro-optic modulators designing or target materials epitaxy processing, and E-beam technology research. Meanwhile, CdTe can be alloyed with Mercury to make a versatile infrared detector material (HgCdTe), or to make an excellent solid-state X-ray and gamma ray detector CdZnTe with a small amount of Zinc. 5x5mm or 10x10mm of CdTe square substrate is available, 5N 6N 7N monocrystalline ingot also can be supplied.



No.	Items	Standard Specifications
1	Structure Formula	Cadmium Telluride
2	Shape	Square
3	Size mm	5x5, 10x10 or as required
4	Thickness μm	500, 1000 or 3000
5	Orientation	<100> <110> <111>
6	Surface Roughness \AA	<10
7	Surface Finish	P/E, P/P
8	Packing	In vacuum bag inside, carton box outside

↘ Cadmium Zinc Telluride (CdZnTe) Substrate

Cadmium Zinc Telluride Substrate (CdZnTe or CZT), is an alloy of Cadmium, Zinc and Tellurium. A direct band gap semiconductor used in a variety of applications, including semiconductor radiation detectors, photorefractive gratings, electro-optic modulators, solar cells, and terahertz generation and detection. The band gap varies from approximately 1.4 to 2.2 eV. 10x10x1.0mm, 14x14x1.3mm or 25x25x1.3mm is available.



No.	Items	Standard Specifications
1	Structure Formula	Cadmium Zinc Telluride
2	Shape	Cubic
3	Size mm	10x10x1.0 or 14x14x1.3 or 25x25x1.3
4	Conductivity	P
5	Orientation	<111> or <211>
6	Resistivity $\Omega\cdot\text{cm}$	$\rho > 1\text{E}6$
7	IR Transmission min	60%, (1.5-25 μm IR wave)
8	X-ray rad.s max	≤ 30 DCRC FWHM(FWHM)
9	EPD cm^{-2}	$< 4\text{E}10$, <111>; $1\text{E}10$, <211>
10	Surfaces Roughness nm max	5
11	Packing	In vacuum bag inside, carton box outside

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