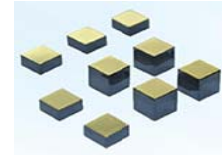




↘ Cadmium Telluride (CdTe) Substrate

Cadmium Telluride (CdTe) Substrate is compound by high purity Cadmium and Tellurium elements, which can be widely used for PIN semiconductor structure manufacturing, electro-optic modulators designing or target materials epitaxial processing, as well as E-beam technology research. Square wafer with 5x5, 10x10 mm side length are available.



No.	Items	Standard Specifications
1	Structure Formula	Cadmium Telluride
2	Shape	Square
3	Side Length 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 (CdZnTe or CZT) Substrate, is an alloy of Cadmium, Zinc and Tellurium, widely used in 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. Side length 10x10, 14x14 and 25x25 mm are available.



No.	Items	Standard Specifications
1	Structure Formula	Cadmium _{0.96} Zinc _{0.04} Telluride
2	Dimension mm	10x10x1.0 or 14x14x1.3 or 25x25x1.3
3	Conductivity	P
4	Orientation	(111) or (211)
5	Resistivity $\Omega\text{-cm}$	$\rho > 1\text{E}6$
6	IR Transmission min	60% (1.5-25 μm IR wave)
7	X-ray DCRC FWHM rad·s max	≤ 30
8	EPD cm^{-2}	<4E4 for (111); <1E4 for (211)
9	Surfaces Roughness nm max	5
10	Packing	In vacuum bag inside, carton box outside.