

Cadmium Telluride (CdTe)

Cadmium Telluride (CdTe) solar panels are best known for their ability to absorb sunlight at shorter wavelengths. Compared to traditional silicon solar technology, CdTe offers a simplified production process, higher optimal conversion efficiencies and lower power generation costs. The combination of these attributes make CdTe the preferred technology choice for solar power plants.

Vital Thin Film Materials (VTFM) is one of the largest material suppliers into the CdTe solar industry. VTFM's standard range of materials, available in various geometries, include: CdTe; CdS; ZnTe; CdZnTe.

Targets

	CdTe	CdS	CdZnTe	ZnTe
Form	Planar Target	Planar Target	Planar Target	Rotary Target
Purity	5N	5N	5N	5N
Density (g/cm ³)	>5.5	>5.65	>5.5	>5.4
O content	<200ppm	<200ppm	<200ppm	<200ppm
C content	<50ppm	<50ppm	<50ppm	<50ppm
Max width*length (mm)*	150*150	150*150	150*150	150*150
Thickness (mm)	25	25	25	15

*Custom dimensions available on request

Evaporation Materials

	CdTe Shot/Powder	CdS Shot/Powder	CdSe Shot/Powder	ZnTe Shot/Powder
Purity	6N	5N	6N	5N
O Content	<200ppm	/	<200ppm	<200ppm
C Content	<50ppm	/	<50ppm	<50ppm

*Custom dimensions available on request

Recycling

Vital Thin Film Materials provides closed loop recycling for all Cd and Te containing wastes: spent targets, chamber / shield scrap and end of life products. We also provide customized recycling solutions for complex waste materials.

VTFM is ISO9001, ISO14001, ISO14021 and OHSAS18001 certified.

