

Global Cadmium Zinc Telluride Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cadmium Zinc Telluride market size is expected to reach \$ 263 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

Cadmium zinc telluride (commonly abbreviated as CdZnTe or CZT) is a II-VI ternary compound semiconductor formed from cadmium telluride and zinc telluride, with the general formula $Cd_{1-x}Zn_xTe$. By adjusting parameters such as zinc content, purity, resistivity, the mobility-lifetime product of charge carriers, and crystal defect levels, CZT materials tailored for various applications can be produced. Detector-grade CZT typically features a high atomic number, high density, a wide bandgap, and high resistivity, enabling the direct conversion of X-rays or gamma rays into electrical signals at room temperature without the need for the cryogenic cooling systems required by high-purity germanium detectors; infrared-grade CZT, meanwhile, serves primarily as an epitaxial substrate for mercury cadmium telluride (MCT) infrared detectors. This article covers high-purity polycrystalline CZT, single-crystal ingots, crystal blanks, slices, polished wafers, infrared substrates, and unpackaged detector-grade crystal components, but excludes complete detector modules, electronic readout systems, and end-use detection equipment.

Growth in the Cadmium Zinc Telluride market is primarily driven by increasing demand from medical imaging, nuclear radiation detection, industrial nondestructive testing, security inspection, space research, and infrared sensing. CZT combines a high effective atomic number, high density, wide bandgap, and high electrical resistivity, enabling direct conversion of X-ray and gamma-ray photons into electrical signals at room temperature. Its high energy resolution, small achievable pixel size, and rapid response make it suitable for photon-counting CT, SPECT, radioisotope identification, dosimetry, nuclear security inspection, and high-resolution radiation imaging. High-

quality CZT single crystals are also used as epitaxial substrates for mercury cadmium telluride infrared detectors, supporting demand from defense, aerospace, and advanced infrared imaging applications. Key market risks include the technical difficulty of crystal growth, low usable yields, inconsistent performance across individual boules and crystal regions, lengthy product qualification cycles, and limited availability of large, high-quality single crystals. High cadmium vapor pressure, zinc segregation, tellurium inclusions, cracking, twinning, and dislocations can increase material losses and production costs, while fluctuations in the supply and pricing of high-purity tellurium, cadmium, and zinc may affect profitability. Cadmium toxicity also raises occupational health, environmental treatment, and hazardous-waste disposal costs. In addition, CZT competes with cadmium telluride, silicon, gallium arsenide, high-purity germanium, and scintillator materials, while export licensing, dual-use controls, and international trade restrictions may create further uncertainty in cross-border supply and customer delivery.

This report studies the global Cadmium Zinc Telluride demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cadmium Zinc Telluride, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Cadmium Zinc Telluride that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cadmium Zinc Telluride total market, 2021-2032, (USD Million)

Global Cadmium Zinc Telluride total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Cadmium Zinc Telluride total market, key domestic companies, and share, (USD Million)

Global Cadmium Zinc Telluride revenue by player, revenue and market share 2021-2026, (USD Million)

Global Cadmium Zinc Telluride total market by Type, CAGR, 2021-2032, (USD Million)

Global Cadmium Zinc Telluride total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Cadmium Zinc Telluride market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of

this study include 5Nplus, Nanorh, Vital Materials, Western Minmetals (SC) Corporation, Shaanxi Imdetek, Wuhan Tuocai Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Cadmium Zinc Telluride market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Cadmium Zinc Telluride Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cadmium Zinc Telluride Market, Segmentation by Type:

Single-Crystal Cadmium Zinc Telluride

Polycrystalline Cadmium Zinc Telluride

Global Cadmium Zinc Telluride Market, Segmentation by Product Grade:

Detector Grade

Infrared Substrate Grade

Industrial and Research Grade

Global Cadmium Zinc Telluride Market, Segmentation by Zinc Mole Fraction:

Low-Zinc CZT

Medium-Zinc CZT

High-Zinc CZT

Global Cadmium Zinc Telluride Market, Segmentation by Application:

Medical

Security and Border Control

Industrial

Scientific Research

Others

Companies Profiled:

5Nplus

Nanorh

Vital Materials

Western Minmetals (SC) Corporation

Shaanxi Imdetek

Wuhan Tuocai Technology

Key Questions Answered

1. How big is the global Cadmium Zinc Telluride market?
2. What is the demand of the global Cadmium Zinc Telluride market?
3. What is the year over year growth of the global Cadmium Zinc Telluride market?
4. What is the total value of the global Cadmium Zinc Telluride market?
5. Who are the Major Players in the global Cadmium Zinc Telluride market?
6. What are the growth factors driving the market demand?

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