

Global Indium Phosphide (InP) Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Indium Phosphide (InP) Materials market size is expected to reach \$ 287 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

Indium Phosphide (InP) materials are III-V compound semiconductor materials composed of indium and phosphorus, featuring a direct bandgap, high electron mobility, strong high-frequency performance, and excellent optoelectronic conversion capability. Compared with silicon, InP is more suitable for high-speed, high-frequency, and optoelectronic integration applications. Common product forms include InP polycrystalline materials, InP single-crystal substrates, InP wafers, and InP epitaxial wafers. These materials are mainly used in optical communication lasers, photodetectors, modulators, optical modules, 5G/6G RF devices, millimeter-wave devices, LiDAR, infrared detection, and high-efficiency solar cells, making them essential base materials for high-speed optical communication and advanced optoelectronic devices. In 2025, global Indium Phosphide (InP) Materials production reached approximately 141 k units, with an average global market price of around 1100 USD/unit. The production capacity for Indium Phosphide (InP) Materials in 2025 was approximately 150 k units. The typical gross profit margin for Indium Phosphide (InP) Materials between 20% and 40%.

The Indium Phosphide (InP) materials market refers to the development, production, and sales of InP polycrystalline materials, single-crystal substrates, wafers, and epitaxial wafers, serving industries such as optical communications, high-speed data center optical modules, RF communications, sensing, detection, and advanced optoelectronic devices. In recent years, demand from AI data centers, 800G/1.6T optical modules, silicon photonics integration with InP lasers, 5G/6G communications, and

LiDAR has increased the strategic importance of InP materials in high-speed lasers, photodetectors, and photonic integrated circuits. Due to the difficulty of InP crystal growth, complex yield control, concentrated supplier base, and long customer qualification cycles, the market is characterized by high technical barriers, high product prices, and tight supply for advanced specifications.

This report studies the global Indium Phosphide (InP) Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Indium Phosphide (InP) Materials 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 Indium Phosphide (InP) Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Indium Phosphide (InP) Materials total production and demand, 2021-2032, (K Pcs)

Global Indium Phosphide (InP) Materials total production value, 2021-2032, (USD Million)

Global Indium Phosphide (InP) Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Indium Phosphide (InP) Materials consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Indium Phosphide (InP) Materials domestic production, consumption, key domestic manufacturers and share

Global Indium Phosphide (InP) Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Indium Phosphide (InP) Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Indium Phosphide (InP) Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Indium Phosphide (InP) Materials market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sumitomo Electric, JX Nippon Mining & Metals, AXT, Freiburger, Zhuhai DT Wafer-Tech, Xinyao Semiconductor (Yunnan Lincang Xinyuan Germanium Industry), Guangdong Pingrui Semiconductor, 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 Indium Phosphide (InP) Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) by manufacturer, 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 Indium Phosphide (InP) Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Indium Phosphide (InP) Materials Market, Segmentation by Type:

InP Single Crystal Substrate

InP Polycrystalline

InP Epitaxial Wafer

Global Indium Phosphide (InP) Materials Market, Segmentation by Purity Grade:

Electronic Grade InP

Optoelectronic Grade InP

Global Indium Phosphide (InP) Materials Market, Segmentation by Conductivity Type:

N-type InP

P-type InP

Global Indium Phosphide (InP) Materials Market, Segmentation by Application:

Optical Communication/Telecommunications Networks

Data Centers/High-performance Computing (HPC)

Others

Companies Profiled:

Sumitomo Electric

JX Nippon Mining & Metals

AXT

Freiberger

Zhuhai DT Wafer-Tech

Xinyao Semiconductor (Yunnan Lincang Xinyuan Germanium Industry)

Guangdong Pingrui Semiconductor

Key Questions Answered:

1. How big is the global Indium Phosphide (InP) Materials market?
2. What is the demand of the global Indium Phosphide (InP) Materials market?
3. What is the year over year growth of the global Indium Phosphide (InP) Materials market?
4. What is the production and production value of the global Indium Phosphide (InP) Materials market?
5. Who are the key producers in the global Indium Phosphide (InP) Materials market?
6. What are the growth factors driving the market demand?

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