

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

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## Abstracts

The global Indium Phosphide (InP) Substrates 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) Substrates are III-V compound semiconductor wafers made from single-crystal indium phosphide material. They offer high electron mobility, a direct bandgap, excellent high-frequency performance, and strong optoelectronic conversion efficiency. InP substrates are mainly used to manufacture high-speed optical communication devices, lasers, photodetectors, photonic integrated circuits, RF devices, and high-frequency electronic components. They are key base materials for data center optical modules, 5G communications, LiDAR, satellite communications, optical sensing, and advanced optoelectronic applications. Compared with silicon substrates, InP substrates are better suited for high-speed, high-frequency, and optoelectronic integration applications, but they are more expensive, smaller in wafer size, and more difficult to manufacture. In 2025, global Indium Phosphide (InP) Substrates production reached approximately 141 k units, with an average global market price of around 1100 USD/unit. The production capacity for Indium Phosphide (InP) Substrates in 2025 was approximately 150 k units. The typical gross profit margin for Indium Phosphide (InP) Substrates between 20% and 40%.

The Indium Phosphide (InP) Substrates market mainly serves high-speed optical communications, data center optical modules, 5G/6G networks, lasers, photodetectors, photonic integrated circuits, satellite communications, and high-frequency RF devices. Compared with silicon and gallium arsenide substrates, InP substrates offer a direct bandgap, high electron mobility, and excellent optoelectronic conversion performance, making them especially suitable for DFB lasers, EML lasers, APD photodetectors, InP

HBT/HEMT devices, and high-speed optoelectronic chips. Driven by rising demand for 800G/1.6T optical modules, coherent optical communication, and laser sources for silicon photonics in AI data centers, the InP substrates market is expected to grow steadily, although high cost, limited wafer size, and complex epitaxy and processing remain key barriers to wider adoption.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Indium Phosphide (InP) Substrates 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) Substrates 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) Substrates Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

InP Single Crystal Substrate

InP Polycrystalline

InP Epitaxial Wafer

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

Electronic Grade InP

Optoelectronic Grade InP

Global Indium Phosphide (InP) Substrates 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) Substrates market?

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

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