

# Global InP Semi-Insulating Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global InP Semi-Insulating market size was valued at US\$ 76.2 million in 2024 and is forecast to a readjusted size of USD 203 million by 2031 with a CAGR of 14.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Indium phosphide (InP) is a second-generation compound semiconductor material with the advantages of high electron mobility, good radiation resistance, and large bandgap. It has key advantages in the field of photons and radio frequency and is the first choice for military communications, radar, radiation measurement, and automatic test equipment. The price of a single 300mm large silicon wafer of Shanghai Silicon Industry is about 314 yuan, while the price of a 6-inch semi-insulating gallium arsenide wafer is 200 US dollars, and the price of a 4-inch semi-insulating indium phosphide wafer is as high as 1,000 US dollars, which shows that the price of compound semiconductors such as indium phosphide and gallium arsenide wafers is much higher than that of silicon wafers. The emergence of semi-insulating indium phosphide (InP) wafers is of great significance for improving and enhancing the performance of InP-based microelectronic devices. This semi-insulating wafer prepared by high-temperature annealing process not only maintains the high resistance characteristics of the traditional native iron-doped substrate, but also greatly reduces the iron concentration, and significantly improves the electrical properties, uniformity and consistency. Indium phosphide is another important III-V compound semiconductor material after silicon and gallium arsenide. Indium phosphide wafers are often used to manufacture high-frequency, high-speed, high-

power microwave devices and circuits, as well as solar cells for satellites and outer space. In the rapidly developing field of optical fiber communications, it is the preferred substrate material. In addition, InP-based devices also have advantages in IC and switch applications. The successful development of this new semi-insulating indium phosphide wafer will play an important role in the fields of national defense and high-speed communications.

This report is a detailed and comprehensive analysis for global InP Semi-Insulating market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global InP Semi-Insulating market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global InP Semi-Insulating market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global InP Semi-Insulating market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global InP Semi-Insulating market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for InP Semi-Insulating
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global InP Semi-Insulating market based on the

following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sumitomo Electric Industries, InPact, PAM-XIAMEN, MTI Corporation, WaferTech, AXT, Inc., DT Wafer-Tech, Qingdao Haohan Quancai Semiconductor Co., Ltd., YUNNAN GERMANIUM, PlutoChip Co., Ltd, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

InP Semi-Insulating market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### **Market segment by Type**

4-inch Semi-insulating InP Wafer

6-inch semi-insulating InP wafer

### **Market segment by Application**

Fiber Optic Communications (Lasers/Detectors)

Aerospace

### **Major players covered**

Sumitomo Electric Industries

InPact

PAM-XIAMEN

MTI Corporation

WaferTech

AXT, Inc.

DT Wafer-Tech

Qingdao Haohan Quancai Semiconductor Co., Ltd.

YUNNAN GERMANIUM

PlutoChip Co., Ltd

Vital Materials

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe InP Semi-Insulating product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of InP Semi-Insulating, with price, sales quantity, revenue, and global market share of InP Semi-Insulating from 2020 to 2025.

Chapter 3, the InP Semi-Insulating competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the InP Semi-Insulating breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and InP Semi-Insulating market forecast, by regions, by Type, and by

Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of InP Semi-Insulating.

Chapter 14 and 15, to describe InP Semi-Insulating sales channel, distributors, customers, research findings and conclusion.

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