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Global Compound Semiconductors Materials Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Compound Semiconductors Materials market size is predicted to grow from US$ 2407 million in 2025 to US$ 5548 million in 2032; it is expected to grow at a CAGR of 12.7% from 2026 to 2032.

Compound Semiconductor Materials are semiconductor-grade wafer products in which compounds composed of two or more chemical elements provide the primary semiconductor functionality. These materials are processed into commercially usable wafers through substrate fabrication, surface preparation, engineered-substrate construction, template formation, or epitaxial growth for subsequent semiconductor device manufacturing.

The scope of this study principally covers wafers, substrates, engineered substrates, templates, and epitaxial wafers based on material systems including SiC, GaN, GaAs, InP, AlN, other III-V materials such as GaSb, InAs, and InSb.

Based on our research, the global compound semiconductor materials market has evolved from a specialized materials industry historically centered on established III-V wafer platforms such as GaAs and InP into a broader multi-material growth market combining rapid expansion in SiC and GaN with structural upgrading in GaAs and InP. SiC remains the largest individual material platform, accounting for approximately 47.4% of global revenue in 2025, but the growth profile of the industry is becoming increasingly diversified. InP is emerging as a major incremental growth engine through AI datacentre optical interconnects, while GaN continues to expand from consumer power applications toward AI-server power systems, automotive electronics, industrial power conversion, and RF infrastructure. SEMI's April 2026 Power & Compound Fab Outlook similarly identifies electrification, renewable energy, power efficiency, industrial

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automation, and telecommunications as structural drivers of wafer demand and continued capacity investment across SiC, GaN, GaAs, InP, and related compound semiconductor platforms.

The supply landscape is characterized by both material specialization and increasing regional diversification. Japan maintains one of the broadest industrial capabilities across GaAs, InP, GaN, SiC, AlN, and specialty compound semiconductor materials, while the United States retains strategically important positions in SiC substrates, III-V substrates, and specialized epitaxial materials. Europe has developed differentiated positions in engineered substrates, GaN epitaxy, and merchant III-V epitaxy, and Taiwan remains particularly relevant to high-volume GaAs- and InP-based epitaxial wafer manufacturing. Mainland China, meanwhile, has become one of the most active regions for new supplier entry and manufacturing-capacity expansion, with increasingly complete local supply chains spanning SiC substrates and epitaxy, GaN wafers, GaAs and InP substrates, and multiple III-V epitaxial platforms. This increase in supplier numbers does not imply that the industry's barriers to entry are falling. Competition is moving from the basic capability to manufacture a semiconductor wafer toward large-diameter production stability, low defect densities, wafer-to-wafer uniformity, manufacturing yield, customer qualification, and cost per usable wafer area. In SiC specifically, the transition from 150 mm to 200 mm has moved from technology demonstration toward commercial-scale supply, with leading suppliers reporting stable mass delivery of 8-inch conductive substrates and continued optimization of their large-diameter product mix. This shift means that nominal installed capacity will become a progressively weaker indicator of competitive strength unless it is accompanied by acceptable yields, quality consistency, customer qualifications, and sustainable unit economics.

Demand and pricing trends also differ substantially among material platforms. SiC should continue to benefit from electric-vehicle traction systems, charging infrastructure, photovoltaic and energy-storage systems, grids, industrial power electronics, and increasingly datacentre power architectures, but the SiC substrate market has already demonstrated that physical shipment growth does not translate directly into revenue growth. Public company disclosures show strong increases in SiC substrate shipments accompanied by significant reductions in average selling prices, reflecting capacity expansion, manufacturing learning, larger-diameter migration, and intensifying supplier competition. GaN is following a different adoption curve. Its commercial base has expanded from consumer fast charging toward higher-value applications such as AI-server power supplies and electric vehicles, and recent industry investment explicitly targets these emerging high-power applications. InP represents the most significant

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near-term structural acceleration in the current model. Rapid scaling of AI clusters is increasing demand for 800G, 1.6T, and next-generation optical links, strengthening requirements for both InP substrates and increasingly sophisticated InP epitaxial structures. During 2026, suppliers announced multi-year InP epiwafer supply agreements, dedicated production orders for AI and datacentre markets, and expectations that accelerating InP demand would become a material growth driver beyond 2026. This suggests that the current InP cycle is increasingly associated with a fundamental datacentre architecture transition rather than simply a recovery in traditional telecom demand.

Report Scope

LPI (LP Information)' newest research report, the “Compound Semiconductors Materials Industry Forecast” looks at past sales and reviews total world Compound Semiconductors Materials sales in 2025, providing a comprehensive analysis by region and market sector of projected Compound Semiconductors Materials sales for 2026 through 2032. With Compound Semiconductors Materials sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Compound Semiconductors Materials industry.

This Insight Report provides a comprehensive analysis of the global Compound Semiconductors Materials landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Compound Semiconductors Materials portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Compound Semiconductors Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Compound Semiconductors Materials and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Compound Semiconductors Materials.

This report presents a comprehensive overview, market shares, and growth opportunities of Compound Semiconductors Materials market by product type,

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application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

SiC-based Materials

GaN-based Materials

GaAs-based Materials

InP-based Materials

AlN-based Materials

Others

Segmentation by Product Form:

Substrate Wafer

Engineered Substrate and Template

Epitaxial Wafer

Segmentation by Size:

Up to 4 Inch

6 Inch

8 Inch

Segmentation by Application:

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Power Electronics

RF and Microwave Electronics

Optical Communications and Datacom

LED, Laser and Display

Sensing, Imaging and Detection

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

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Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Wolfspeed

Coherent

SICC

SK Siltron

ROHM

TankeBlue Semiconductor

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Jingsheng Mechanical & Electrical

Sanan Optoelectronics

Resonac

EpiWorld

GlobalWafers

Soitec

Synlight Crystal

Tianyu Semiconductor

Ningbo Alpha Semiconductor

Summit Crystal Semiconductor

CETC Compound Semiconductor

Luxiao Technology

Shanxi Shuoke Crystal

Zhejiang Jingyue Semiconductor

Tony Electronics

Proterial

Mitsubishi Chemical Group

Kyma Technologies

Nanowin

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Eta Research

Enkris Semiconductor

SweGaN

IVWorks

Stanley Electric

Asahi Kasei

Ultratrend Technologies

Sumitomo Electric Industries

Sumitomo Chemical

DOWA HOLDINGS

Freiberger Compound Materials

AXT

JX Advanced Metals

IQE

VPEC

IntelliEPI

LandMark Optoelectronics

III-V Epi

VIGO Photonics

China Crystal Technologies

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ACS Semiconductor

Shanghai Jiudong Semiconductor

Qingdao Haohan Quancai Semiconductor

ATECOM Technology

Yunnan Germanium

EpiHouse

Xiamen Yinke Qirui Semiconductor

Zhuhai Dingtai Xinyuan Crystal

Vital Materials Group

ZhongGe Technology

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