

Global Resin Bond Synthetic Diamond Powders Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Resin Bond Synthetic Diamond Powders market size is expected to reach \$ 187 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

Resin Bond Synthetic Diamond Powders are engineered diamond micropowders formulated for resin-bond abrasive systems, delivering high cutting efficiency, uniform surface finish, and stable self-sharpening behavior under precision grinding and polishing conditions. Their key advantages include controlled particle size distribution, consistent scratch performance, strong process adaptability, and reliable batch-to-batch quality that supports high-yield manufacturing. In 2025, production was approximately 1,781 tons and the average price was USD 73,000 per ton. The industry's capacity utilization rate in 2025 was about 60% and the average gross margin was around 37%. Upstream, the most important inputs include graphite and jet milling equipment, with representative suppliers such as GrafTech and Hosokawa supporting carbon source materials and fine particle processing capability. The midstream segment focuses on diamond synthesis, controlled crushing and shaping, precision grading, and surface treatment to optimize dispersion, resin wettability, and grinding consistency for targeted applications. Downstream, these powders are primarily consumed in optical component processing and semiconductor processing, with representative customers including ZEISS, Nikon, Edmund Optics, Thorlabs, Intel, TSMC, Samsung Electronics, and Micron, where demand is driven by tighter defect control, higher throughput, and lower total polishing cost. In an increasingly competitive environment, suppliers that improve yield, reduce classification loss, and co-develop application-specific grades with downstream users are more likely to protect margins and convert technical differentiation into sustainable profitability.

The market outlook for Resin Bond Synthetic Diamond Powders is increasingly defined by the rising precision requirements of optical component and semiconductor

processing. As downstream manufacturing shifts toward finer surface quality, tighter defect tolerance, and higher throughput, resin-bond systems are favored for their controllable cutting behavior and surface finish stability. Current industry conditions show steady demand alongside intensifying competition, which is accelerating price discipline and narrowing the gap between standard and high-performance grades. In this environment, profitability is less dependent on volume expansion and more closely tied to yield management, particle consistency, and application-specific optimization. Suppliers that can align powder characteristics with polishing processes and support downstream efficiency gains are better positioned to sustain margins and capture long-term value.

This report studies the global Resin Bond Synthetic Diamond Powders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Resin Bond Synthetic Diamond Powders 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 Resin Bond Synthetic Diamond Powders that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Resin Bond Synthetic Diamond Powders total production and demand, 2021-2032, (Tons)

Global Resin Bond Synthetic Diamond Powders total production value, 2021-2032, (USD Million)

Global Resin Bond Synthetic Diamond Powders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Resin Bond Synthetic Diamond Powders consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Resin Bond Synthetic Diamond Powders domestic production, consumption, key domestic manufacturers and share

Global Resin Bond Synthetic Diamond Powders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Resin Bond Synthetic Diamond Powders production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Resin Bond Synthetic Diamond Powders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Resin Bond Synthetic Diamond Powders 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 Huifeng Diamond, HENAN

HUANGHE WHIRLWIND, ILJIN Diamond, Soham Industrial Diamonds, Advanced Abrasives Corporation, Tomei Diamond Corporation, E-Grind Abrasives, Tianjian, Sino-Crystal Diamond, Henan Yalong, 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 Resin Bond Synthetic Diamond Powders market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Resin Bond Synthetic Diamond Powders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Resin Bond Synthetic Diamond Powders Market, Segmentation by Type:

Uncoated Type

Nickel Coating

Copper Coating

Global Resin Bond Synthetic Diamond Powders Market, Segmentation by Particle Size:

W10

W14

W20

W28

W40

W60

Others

Global Resin Bond Synthetic Diamond Powders Market, Segmentation by Crystalline Structure:

Polycrystalline Diamond Powder

Monocrystalline Diamond Powder

Global Resin Bond Synthetic Diamond Powders Market, Segmentation by Application:

Optical Component Processing

Semiconductor Processing

Others

Companies Profiled:

Huifeng Diamond

HENAN HUANGHE WHIRLWIND

ILJIN Diamond

Soham Industrial Diamonds

Advanced Abrasives Corporation

Tomei Diamond Corporation

E-Grind Abrasives

Tianjian

Sino-Crystal Diamond

Henan Yalong

Hyperion

Gem Diamond Products

Key Questions Answered:

1. How big is the global Resin Bond Synthetic Diamond Powders market?
2. What is the demand of the global Resin Bond Synthetic Diamond Powders market?
3. What is the year over year growth of the global Resin Bond Synthetic Diamond Powders market?
4. What is the production and production value of the global Resin Bond Synthetic Diamond Powders market?
5. Who are the key producers in the global Resin Bond Synthetic Diamond Powders market?
6. What are the growth factors driving the market demand?

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