

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

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Abstracts

The global Metal Bond Diamond Powders market size is expected to reach \$ 151 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Metal Bond Diamond Powders are engineered diamond micropowders designed for metal-bond systems, offering high hardness, strong grain retention, and stable cutting performance under heavy loads, which makes them well suited for precision grinding, cutting, and wear-resistant applications where tool life and consistency are critical. In 2025, production was approximately 1,382 tons and the average price was USD 76,000 per ton. The industry's capacity utilization rate in 2025 was about 60% and the average gross margin was around 40%. In the upstream segment, Metal Bond Diamond Powders rely primarily on graphite as the carbon source and jet milling equipment as the core processing input, with representative suppliers such as GrafTech and Hosokawa supporting raw material supply and fine particle classification. The midstream segment centers on diamond synthesis, controlled crushing and shaping, precise particle size grading, and surface modification to ensure stable bonding behavior with metal matrices and consistent performance in high-load grinding and cutting applications. Downstream, these powders are widely used in stone processing and building materials processing, serving manufacturers of cutting tools and abrasives for engineered stone, ceramics, and architectural materials, with representative customers including Cosentino, Caesarstone, Mona Lisa Group, and Marco Polo Holdings, where demand is driven by requirements for machining efficiency, surface quality, and tool durability.

The market outlook for Metal Bond Diamond Powders is closely linked to structural changes in downstream stone and building materials processing, where efficiency, consistency, and tool life have become decisive purchasing criteria. As engineered stone, ceramic slabs, and architectural materials move toward higher hardness and

tighter dimensional tolerances, demand is shifting from generic abrasives to performance-oriented diamond powders tailored to specific cutting and grinding conditions. Current industry dynamics show intensifying competition and ongoing price discipline, pushing producers to focus on yield optimization, particle uniformity, and application-driven formulation rather than volume expansion alone. Over the medium term, profitability will increasingly depend on process control, loss reduction, and the ability to collaborate with tool manufacturers to deliver differentiated specifications, allowing leading suppliers to convert technical know-how into more resilient margins. This report studies the global Metal Bond Diamond Powders production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Metal Bond Diamond Powders total production and demand, 2021-2032, (Tons)
Global Metal Bond Diamond Powders total production value, 2021-2032, (USD Million)
Global Metal Bond Diamond Powders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

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

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

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

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

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

This report profiles key players in the global Metal Bond 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 Metal Bond 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 Metal Bond Diamond Powders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Metal Bond Diamond Powders Market, Segmentation by Type:

Uncoated Type

Nickel Coating

Titanium Coating

Global Metal Bond Diamond Powders Market, Segmentation by Particle Size:

W10

W14

W20

W28

W40

W60

Others

Global Metal Bond Diamond Powders Market, Segmentation by Crystalline Structure:

Polycrystalline Diamond Powder

Monocrystalline Diamond Powder

Global Metal Bond Diamond Powders Market, Segmentation by Application:

Stone Processing

Construction Materials 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 Metal Bond Diamond Powders market?
2. What is the demand of the global Metal Bond Diamond Powders market?
3. What is the year over year growth of the global Metal Bond Diamond Powders market?
4. What is the production and production value of the global Metal Bond Diamond Powders market?
5. Who are the key producers in the global Metal Bond Diamond Powders market?
6. What are the growth factors driving the market demand?

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