

Global Self-Bonding Composite Powder Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GEAFF142CBEAEN.html>

Date: August 2026

Pages: 101

Price: US\$ 4,480.00 (Single User License)

ID: GEAFF142CBEAEN

Abstracts

The global Self-Bonding Composite Powder market size is expected to reach \$ 67.69 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Self-bonding composite powder is a thermal spray material composed primarily of high-melting-point metals and reactive metals (such as nickel-clad aluminum, or Ni-Al). During the heating process of thermal spraying, the material undergoes a vigorous exothermic reaction, enabling it to adhere firmly to substrate surfaces without the need for special roughening treatments; it is widely used as a bond coat to enhance the adhesion of subsequent coating layers.

Upstream raw materials primarily consist of metal powders?such as nickel, aluminum, chromium, molybdenum, iron, and cobalt?along with minor amounts of silicon, boron, rare earth elements, or oxide modifiers. Nickel powder determines the powder's corrosion resistance, toughness, and compatibility with the substrate; aluminum powder facilitates the exothermic reaction and enhances bonding; and elements such as chromium and molybdenum improve oxidation resistance, corrosion resistance, and high-temperature stability. Downstream applications primarily serve thermal spray service providers, surface restoration companies, equipment manufacturers, and the end-user maintenance market, where the material is used to create a bonding layer between the metal substrate and functional coatings or to form wear- and corrosion-resistant coatings directly.

In 2025, the global sales volume of self-bonding composite powders is approximately 620 metric tons, with an average selling price of around \$78/kg and a gross profit margin of approximately 32%-45%.

This report studies the global Self-Bonding Composite Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Self-Bonding Composite Powder 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 Self-Bonding Composite Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Self-Bonding Composite Powder total production and demand, 2021-2032, (Tons)

Global Self-Bonding Composite Powder total production value, 2021-2032, (USD Million)

Global Self-Bonding Composite Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Self-Bonding Composite Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Self-Bonding Composite Powder domestic production, consumption, key domestic manufacturers and share

Global Self-Bonding Composite Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Self-Bonding Composite Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Self-Bonding Composite Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Self-Bonding Composite Powder 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 Oerlikon Metco, H?gan?s, Linde Advanced Material Technologies, Castolin Eutectic, Powder Alloy Corporation, Wall Colmonoy, BGRIMM Advanced Materials Science & Technology, Hunan Jiorie Thermal Spray Materials, 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 Self-Bonding Composite Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Self-Bonding Composite Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Self-Bonding Composite Powder Market, Segmentation by Type:

Nickel-based

Steel-based

Steel-based

Global Self-Bonding Composite Powder Market, Segmentation by Powder Structure:

Coated Type

Composite Agglomerated Type

Mechanically Alloyed Type

Other

Global Self-Bonding Composite Powder Market, Segmentation by Application:

Machinery

Aerospace

Automotive

Metallurgy

Energy and Power

Other

Companies Profiled:

Oerlikon Metco

Höganäs

Linde Advanced Material Technologies

Castolin Eutectic

Powder Alloy Corporation

Wall Colmonoy

BGRIMM Advanced Materials Science & Technology

Hunan Jiorie Thermal Spray Materials

Key Questions Answered:

1. How big is the global Self-Bonding Composite Powder market?
2. What is the demand of the global Self-Bonding Composite Powder market?
3. What is the year over year growth of the global Self-Bonding Composite Powder market?
4. What is the production and production value of the global Self-Bonding Composite Powder market?
5. Who are the key producers in the global Self-Bonding Composite Powder market?
6. What are the growth factors driving the market demand?

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