

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

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Abstracts

The global Nickel-based Self-Bonding Composite Powder market size is expected to reach \$ 59.73 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

Nickel-based self-bonding composite powder is a specialized functional powder primarily used in thermal spray processes. It consists of a nickel (Ni) matrix combined with other metallic particles (such as aluminum or chromium) or non-metallic particles through specialized coating or bonding techniques. Upstream inputs mainly include metal powders?such as high-purity nickel, aluminum, chromium, molybdenum, and silicon?along with auxiliary materials like coating agents, dispersants, packaging/screening materials, and inert gases. Nickel powder determines product cost and matrix phase properties; aluminum powder drives the exothermic reaction and self-bonding capability; and chromium, molybdenum, and silicon serve primarily to enhance oxidation resistance, wear resistance, and high-temperature stability. Midstream enterprises manufacture products tailored to specific particle sizes and spray processes through mechanical coating, pre-alloy atomization, granulation, classification, and batch testing. Downstream applications span thermal spraying, equipment maintenance, surface engineering services, and component manufacturing, serving needs such as part refurbishment, bond coats, dimensional restoration, and wear- and oxidation-resistant coating systems.

In 2025, global sales volume is projected to be approximately 530 metric tons, with an average selling price of around \$80/kg and a gross profit margin of approximately 32%-45%.

This report studies the global Nickel-based Self-Bonding Composite Powder production,

demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Nickel-based 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 AMT, Castolin Eutectic, Powder Alloy Corporation, Wall Colmonoy, Lineage Metallurgical, 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 Nickel-based 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 Nickel-based Self-Bonding Composite Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Ni-Al Type

Ni-Cr-Al Type

Ni-Al-Mo Type

Other

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

Coated Type

Composite Agglomerated Type

Mechanically Alloyed Type

Other

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

General Machinery

Aerospace

Energy Equipment

Metallurgical Equipment

Petrochemical Equipment

Other

Companies Profiled:

Oerlikon Metco

H?gan?s

Linde AMT

Castolin Eutectic

Powder Alloy Corporation

Wall Colmonoy

Lineage Metallurgical

BGRIMM Advanced Materials Science & Technology

Hunan Jiorie Thermal Spray Materials

Key Questions Answered:

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

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