

Global Nickel-based Self-Bonding Composite Powder Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nickel-based Self-Bonding Composite Powder market size was valued at US\$ 43.63 million in 2025 and is forecast to a readjusted size of US\$ 59.73 million by 2032 with a CAGR of 4.6% during review period.

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 is a detailed and comprehensive analysis for global Nickel-based Self-Bonding Composite Powder market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Nickel-based Self-Bonding Composite Powder market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Nickel-based Self-Bonding Composite Powder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Nickel-based Self-Bonding Composite Powder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Nickel-based Self-Bonding Composite Powder market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Nickel-based Self-Bonding Composite Powder

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Nickel-based Self-Bonding Composite

Powder market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Nickel-based Self-Bonding Composite Powder market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Ni-Al Type

Ni-Cr-Al Type

Ni-Al-Mo Type

Other

Market segment by Powder Structure

Coated Type

Composite Agglomerated Type

Mechanically Alloyed Type

Other

Market segment by Application

General Machinery

Aerospace

Energy Equipment

Metallurgical Equipment

Petrochemical Equipment

Other

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Nickel-based Self-Bonding Composite Powder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nickel-based Self-Bonding Composite Powder, with price, sales quantity, revenue, and global market share of Nickel-based Self-Bonding Composite Powder from 2021 to 2026.

Chapter 3, the Nickel-based Self-Bonding Composite Powder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nickel-based Self-Bonding Composite Powder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Nickel-based Self-Bonding Composite Powder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Nickel-based Self-Bonding Composite Powder.

Chapter 14 and 15, to describe Nickel-based Self-Bonding Composite Powder sales channel, distributors, customers, research findings and conclusion.

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