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Global Nickel-based Self-Bonding Composite Powder Market Growth 2026-2032

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Abstracts

The global Nickel-based Self-Bonding Composite Powder market size is predicted to grow from US$ 41.48 million in 2025 to US$ 57.73 million in 2032; it is expected to grow at a CAGR of 4.9% from 2026 to 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%.

United States market for Nickel-based Self-Bonding Composite Powder is estimated to

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increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Nickel-based Self-Bonding Composite Powder is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Nickel-based Self-Bonding Composite Powder is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Nickel-based Self-Bonding Composite Powder players cover Oerlikon Metco, H?gan?s, Linde AMT, Castolin Eutectic, Powder Alloy Corporation, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Nickel-based Self-Bonding Composite Powder Industry Forecast” looks at past sales and reviews total world Nickel-based Self-Bonding Composite Powder sales in 2025, providing a comprehensive analysis by region and market sector of projected Nickel-based Self-Bonding Composite Powder sales for 2026 through 2032. With Nickel-based Self-Bonding Composite Powder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Nickel-based Self-Bonding Composite Powder industry.

This Insight Report provides a comprehensive analysis of the global Nickel-based Self-Bonding Composite Powder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nickel-based Self-Bonding Composite Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Nickel-based Self-Bonding Composite Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nickel-based Self-Bonding Composite Powder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global

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Nickel-based Self-Bonding Composite Powder.

This report presents a comprehensive overview, market shares, and growth opportunities of Nickel-based Self-Bonding Composite Powder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ni-Al Type

Ni-Cr-Al Type

Ni-Al-Mo Type

Other

Segmentation by Powder Structure:

Coated Type

Composite Agglomerated Type

Mechanically Alloyed Type

Other

Segmentation by Application:

General Machinery

Aerospace

Energy Equipment

Metallurgical Equipment

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Petrochemical Equipment

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

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Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Nickel-based Self-Bonding Composite Powder market?

What factors are driving Nickel-based Self-Bonding Composite Powder market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nickel-based Self-Bonding Composite Powder market opportunities vary by end market size?

How does Nickel-based Self-Bonding Composite Powder break out by Type, by Application?

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