

# Global Nickel-based Wear-resistant Alloy Plate 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 Wear-resistant Alloy Plate market size was valued at US\$ 7470 million in 2025 and is forecast to a readjusted size of US\$ 10696 million by 2032 with a CAGR of 5.2% during review period.

In 2025, global production of nickel-based wear-resistant alloy plates reached 1.46 million tons, with an average selling price of US\$4,972.6 per ton.

To address the pain points of traditional metal materials experiencing rapid wear under high-temperature, corrosive, and high-impact conditions, leading to short equipment lifespans and high maintenance costs, nickel-based wear-resistant alloy plates were developed. By adding alloying elements such as chromium, molybdenum, and tungsten to the nickel matrix to form reinforcing phases, their wear resistance is improved by 3-5 times compared to ordinary steel. Since its industrial application in the mid-20th century, it has evolved into various types, including pure alloy plates and composite coated plates, and is widely used as a key structural material in mining machinery, metallurgical equipment, aerospace, and petrochemical fields. It can extend the lifespan of vulnerable equipment parts by 2-4 times and reduce annual maintenance costs by more than 30%.

In the global nickel-based wear-resistant alloy plate market in 2025, the average price of industrial general-purpose plates (Ni content 15%-30%) was US\$1,800-3,500 per ton, while the average price of high-end aerospace-grade plates (Ni content >50%) reached US\$8,000-12,000 per ton; the average price of composite coated plates (substrate + alloy coating) was US\$4,200-6,800 per ton. In terms of production capacity, small and medium-sized enterprises typically have an annual production capacity of

30,000-50,000 tons per line, while leading companies such as Hastelloy in the United States can have a capacity of over 80,000 tons. The industry's average capacity utilization rate is approximately 70%, which can rise to 88% during peak global infrastructure periods (such as the Southeast Asian mining boom). The overall gross profit margin of the industry is approximately 21.82%.

**Typical Transaction Cases:** In the second quarter of 2024, China Energy Investment Corporation purchased 28,000 tons of Incoloy 825 nickel-based wear-resistant alloy plates (NC-825-12) from Jinchuan Group, totaling approximately US\$142 million. The procurement requirements specified 'Ni content ? 42%, HRC hardness ? 45, resistance to 800? high-temperature corrosion, and wear life ? 12,000 hours,' for use in the manufacture of wear parts for scraper conveyors and crushers in the Shanxi, Shaanxi, and Inner Mongolia mining areas, extending equipment maintenance cycles from 3 months to 12 months.

In the fourth quarter of 2024, China Aerospace Science and Technology Corporation purchased 3,000 tons of Hastelloy C-276 plates from the United States at a unit price of US\$5,500/ton, requiring 'non-magnetic permeability ? 1.005, welded joint tensile strength ? 690MPa, and resistance to strong acid corrosion,' for use in the turbopump components of the Long March 7 carrier rocket engine, addressing wear and corrosion issues under high temperature and pressure. The hardfacing materials industry chain originates from core metals such as electrolytic nickel, ferrochrome, and ferromolybdenum (dominated by companies like Jinchuan Group and BHP Billiton), and relies on key processes such as hot rolling equipment, laser cladding systems, and vacuum melting (supported by technologies like SMS Group and IPG Photonics). Ultimately, it is widely applied in four core areas: mining (42%, with demand increasing by 25% driven by Southeast Asian development), metallurgical manufacturing (28%), aerospace (15%, with high-end demand increasing by 32%), and petrochemicals (15%), forming a complete supply chain from special metallurgy to heavy industrial wear protection.

**Industry Trends and Challenges:** High-performance products are driving a 9% annual increase in the proportion of high-nickel content (?60%) products, with a surge in demand for aerospace-grade materials such as Inconel 718; the penetration rate of laser cladding coated plates is increasing by 12% annually in the context of composite upgrades, and crack-free technology is improving wear resistance by 30%; collaborative production is becoming widespread through the 'smelting-forging-rolling' industry alliance model (e.g., the cooperation between Jinchuan and Lanzhou Petrochemical and Jiuquan Iron & Steel has increased capacity utilization to 92%), forming three major

development trends. Market Opportunities: The global infrastructure recovery is driving a 16% annual increase in demand for mining and metallurgical equipment upgrades, with growth rates in India and Southeast Asia exceeding 22%; the aerospace and nuclear power sectors have a demand gap of 80,000 tons/year for high-purity alloy plates; breakthroughs in crack-free coating technology are driving the upgrading of existing equipment, with a market size exceeding US\$1.5 billion. Key challenges include: annual volatility of over 40% in electrolytic nickel prices, squeezing the gross profit margin of basic products to below 18%; the monopoly of US companies on aerospace-grade plate refining processes (domestic impurity content is 3 times higher than Hastelloy); the carbon emission intensity of nickel smelting being 5 times that of ordinary steel; and EU carbon tariffs increasing export costs by 20%-25%.

Demand and Opportunity Analysis: The core drivers of demand for hard-surface materials come from the dual pull of cost reduction and efficiency improvement in industry (such as nickel-based alloy plates reducing the cost of vulnerable parts in mines by 40% and extending the maintenance cycle of metallurgical equipment by 3 times) and the upgrading of high-end manufacturing in aerospace, nuclear power and other industries (driven by global orders for more than 12,000 new aircraft and 48 new nuclear power units, the demand for high-end products has increased by 28%-35%). Coating performance (such as crack-free coatings that increase life by 3-5 times), wide-range production (reducing procurement costs by 22%) and extensive adaptability to working conditions and high-end customization capabilities (temperature range from -50? to 1200?, customization premium of over 60%) provide key technical and product support to meet these explosive demands.

This report is a detailed and comprehensive analysis for global Nickel-based Wear-resistant Alloy Plate 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 Wear-resistant Alloy Plate market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Nickel-based Wear-resistant Alloy Plate market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Nickel-based Wear-resistant Alloy Plate market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Nickel-based Wear-resistant Alloy Plate market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 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 Wear-resistant Alloy Plate

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 Wear-resistant Alloy Plate 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 Hastelloy, Inconel, ThyssenKrupp, Jinchuan Group, Taiyuan Iron & Steel Group, Western Superconducting Technologies, TISCO, Haynes International, Special Metals Corporation, Carpenter Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Nickel-based Wear-resistant Alloy Plate 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-Cr-Mo System

Ni-Cr-W System

Low Nickel Composite System

#### Market segment by Structural Forms

Pure Alloy Plate

Composite Coated Plate

Ultra-Thin Strip

#### Market segment by Preparation Processes

Hot-Rolled Formed Plate

Cold-Rolled Precision Plate

Laser Cladding Plate

#### Market segment by Application

Petrochemical Industry

Marine Engineering

Aerospace

Environmental Protection

Other

### Major players covered

Hastelloy

Inconel

ThyssenKrupp

Jinchuan Group

Taiyuan Iron & Steel Group

Western Superconducting Technologies

TISCO

Haynes International

Special Metals Corporation

Carpenter Technology

VDM Metals

Baosteel Special Steel

Fushun Special Steel

JLC Electromet

Nickel Institute

Luwin Special Metals

Shanghai Kosei Special Alloy

Jiangsu Yuze Metal Products

Anhui Zhongganglian New Materials

Jiangsu Nickelbao Metal Technology

Wuxi Chenxiao Metal Materials

Hangzhou Keliming Metal Products

Jiangsu Jinguo Heavy Industry Machinery

Nangong Dinghong Metal Materials

Wuxi Zhengni Heavy Industry Technology

Qinghe Yinghe Metal Materials

Changsha Tianjiu Metal 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 Wear-resistant Alloy Plate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nickel-based Wear-resistant Alloy Plate, with price, sales quantity, revenue, and global market share of Nickel-based Wear-resistant Alloy Plate from 2021 to 2026.

Chapter 3, the Nickel-based Wear-resistant Alloy Plate competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nickel-based Wear-resistant Alloy Plate 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 Wear-resistant Alloy Plate 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 Wear-resistant Alloy Plate.

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