

Global Nickel Alloys Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Nickel Alloys market size was valued at US\$ 10390 million in 2024 and is forecast to a readjusted size of USD 15520 million by 2031 with a CAGR of 6.0% during review period.

The nickel alloy is a metal that contains a percentage of nickel in its elemental makeup. Nickel is primarily alloyed with chromium, copper, iron, titanium, and molybdenum. Each of these alloy combinations has specific properties that make it best suited to a certain range of applications. For example, Inconel® has excellent corrosion, oxidation, and high-temperature resistance. Most nickel alloys exhibit good corrosion, oxidation, and high-temperature strength properties, with some exceptions. Nickel-iron alloys do not have the same levels of corrosion and oxidation resistance. Nickel alloys are often used in extreme working environments, such as those encountered in the aerospace, chemical processing, and petroleum industries but can also be used in electrical and electronics applications.

The nickel alloy industry is experiencing rapid growth, mainly driven by the following factors:

The rise of new energy vehicles and energy storage: Nickel alloys play an important role in lithium-ion batteries, and with the popularity of electric vehicles and the increasing demand for energy storage, the demand for nickel alloys has also grown.

Ongoing demand from the aerospace and petrochemical industries: Nickel alloys are widely used in aeroengines, turbines and petrochemical equipment, and their excellent high temperature and corrosion resistance makes them the material of choice for these industries.

Expansion of emerging application fields: Nickel alloys also show great potential in emerging fields such as medical devices and 3D printing, and their application range continues to expand.

The development of nickel alloy industry faces opportunities and challenges:

Opportunities: The rapid development of new energy, aerospace and other fields has provided a broad market prospect for nickel alloy; The advancement of additive manufacturing technology has brought new possibilities for the application of nickel alloys.

Challenges: The limited nature of nickel resources, the improvement of environmental requirements and the competition of other new materials have brought challenges to the nickel alloy industry.

Future development trend of nickel alloy industry:

High performance: With the progress of technology, the performance requirements of nickel alloys continue to improve, and the future will be developed in the direction of high strength, high toughness, high temperature resistance and corrosion resistance.

Lightweight: In aerospace, automotive and other fields, there is an urgent need for lightweight materials, so the development of high-strength lightweight nickel alloys has become a research hotspot.

Multi-functional: The function of nickel alloy continues to expand, in addition to the traditional corrosion resistance, high temperature resistance, but also has shape memory, super elasticity and other special functions.

Green: With the enhancement of environmental awareness, the development of green nickel alloy production process and recycling technology has become an important direction for the development of the industry.

This report is a detailed and comprehensive analysis for global Nickel Alloys 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 Alloys market size and forecasts, in consumption value (\$ Million), sales quantity (K Tons), and average selling prices (US\$/Ton), 2020-2031

Global Nickel Alloys market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Tons), and average selling prices (US\$/Ton), 2020-2031

Global Nickel Alloys market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Tons), and average selling prices (US\$/Ton), 2020-2031

Global Nickel Alloys market shares of main players, shipments in revenue (\$ Million), sales quantity (K Tons), and ASP (US\$/Ton), 2020-2025

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 Alloys

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 Alloys 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 VDM Metals, Special Metals Corporation, ArcelorMittal, Carpenter Technology, Aperam (Imphy Alloys), Allegheny (ATI Corporate), Proterial Metals, Nippon Yakin, Sumitomo, Haynes International, etc.

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

Market Segmentation

Nickel Alloys market is split by Type and by Application. For the period 2020-2031, 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

Corrosion Resistant

Heat Resistant

High Performance

Others

Market segment by Application

Aerospace

Oil & Gas

Chemical

Automotive

Others

Major players covered

VDM Metals

Special Metals Corporation

ArcelorMittal

Carpenter Technology

Aperam (Imphy Alloys)

Allegheny (ATI Corporate)

Proterial Metals

Nippon Yakin

Sumitomo

Haynes International

Daido Steel

Alleima

Deutsche Nickel

voestalpine B?HLER Edelstahl

Mitsubishi

Baowu Steel

Jiangsu Longda Superalloy

Wedge Industrial

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 Alloys product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nickel Alloys, with price, sales quantity, revenue, and global market share of Nickel Alloys from 2020 to 2025.

Chapter 3, the Nickel Alloys competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nickel Alloys breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Nickel Alloys market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Alloys.

Chapter 14 and 15, to describe Nickel Alloys sales channel, distributors, customers, research findings and conclusion.

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