

Global 13-8 Alloy 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 13-8 Alloy market size was valued at US\$ 278 million in 2025 and is forecast to a readjusted size of US\$ 380 million by 2032 with a CAGR of 4.8% during review period.

13-8 alloy, commonly designated as 13-8Mo, is a precipitation-hardening martensitic stainless steel. The name derives from its approximate composition of 13% chromium and 8% nickel, with additions of molybdenum and aluminum to promote precipitation strengthening. This alloy offers a combination of high strength, high hardness, good toughness, and excellent corrosion resistance, along with good fabricability and weldability. It is widely used in aerospace, nuclear, petrochemical, and high-performance mechanical applications where both strength and corrosion resistance are critical.

Global production of 13-8 alloy is projected to reach 18,000 tons in 2025, with an average price of US\$15,000 per ton.

From an industry chain perspective, upstream includes stainless steel producers, alloying element suppliers (such as nickel and chromium), vacuum induction melting and VAR/ESR equipment providers, as well as forging and heat treatment processors. 13-8 Alloy (commonly 13-8Mo) is a precipitation-hardening martensitic stainless steel requiring strict composition control, low impurity levels, and precise heat treatment. Core technical barriers lie in high-purity melting capability, microstructure uniformity control, and achieving an optimal balance between strength and toughness.

Downstream applications are mainly in aerospace structural components, fasteners, shafts, valve parts, and other high-strength mechanical components. Aerospace

represents the key market, demanding high strength, good fracture toughness, and corrosion resistance. It is also used in energy and high-end industrial equipment requiring high load-bearing performance under complex environments. The market size is relatively niche but high value-added, with concentrated suppliers.

Industry trends include higher material purity, improved performance consistency, and adaptation to additive manufacturing processes. Growth drivers include aerospace industry expansion, high-end equipment upgrades, and defense demand. Constraints mainly involve nickel price volatility, lengthy qualification cycles, and substitution by titanium or nickel-based superalloys in certain applications.

In terms of profitability, 13-8 Alloy belongs to the high-end specialty alloy segment, typically achieving gross margins of 25% to 45%, with higher levels for certified aerospace-grade products. Profitability largely depends on certification level and customer mix.

This report is a detailed and comprehensive analysis for global 13-8 Alloy 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 13-8 Alloy market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 13-8 Alloy market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 13-8 Alloy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 13-8 Alloy market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 13-8 Alloy

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 13-8 Alloy 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 Aperam, ATI, Carpenter, voestalpine, Special Metals, NiWire, Varzene, etc.

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

Market Segmentation

13-8 Alloy 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

Solution Annealed Condition

H950 Condition

H1000 Condition

H1050 Condition

H1150 Condition

Market segment by Form

Plate

Bar

Forging

Ring

Tube

Market segment by Intensity

Ultra-High Strength Grade

High Strength Grade

Medium-High Strength Grade

Market segment by Application

Aerospace Structural Components

Fasteners And Connectors

Nuclear Industry Components

Petrochemical High-Pressure Parts

Others

Major players covered

Aperam

ATI

Carpenter

voestalpine

Special Metals

NiWire

Varzene

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 13-8 Alloy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 13-8 Alloy, with price, sales quantity, revenue, and global market share of 13-8 Alloy from 2021 to 2026.

Chapter 3, the 13-8 Alloy competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 13-8 Alloy 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 13-8 Alloy 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 13-8 Alloy.

Chapter 14 and 15, to describe 13-8 Alloy sales channel, distributors, customers, research findings and conclusion.

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