

Global 13-8 Alloy Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 13-8 Alloy market size is expected to reach \$ 380 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

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 studies the global 13-8 Alloy production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 13-8 Alloy and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 13-8 Alloy that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 13-8 Alloy total production and demand, 2021-2032, (Tons)

Global 13-8 Alloy total production value, 2021-2032, (USD Million)

Global 13-8 Alloy production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global 13-8 Alloy consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: 13-8 Alloy domestic production, consumption, key domestic manufacturers and share

Global 13-8 Alloy production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global 13-8 Alloy production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global 13-8 Alloy production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global 13-8 Alloy market based on the following

parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 13-8 Alloy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 13-8 Alloy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 13-8 Alloy Market, Segmentation by Type:

Solution Annealed Condition

H950 Condition

H1000 Condition

H1050 Condition

H1150 Condition

Global 13-8 Alloy Market, Segmentation by Form:

Plate

Bar

Forging

Ring

Tube

Global 13-8 Alloy Market, Segmentation by Intensity:

Ultra-High Strength Grade

High Strength Grade

Medium-High Strength Grade

Global 13-8 Alloy Market, Segmentation by Application:

Aerospace Structural Components

Fasteners And Connectors

Nuclear Industry Components

Petrochemical High-Pressure Parts

Others

Companies Profiled:

Aperam

ATI

Carpenter

voestalpine

Special Metals

NiWire

Varzene

Key Questions Answered:

1. How big is the global 13-8 Alloy market?
2. What is the demand of the global 13-8 Alloy market?
3. What is the year over year growth of the global 13-8 Alloy market?
4. What is the production and production value of the global 13-8 Alloy market?
5. Who are the key producers in the global 13-8 Alloy market?
6. What are the growth factors driving the market demand?

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