

Global Corrosion Resistant Alloys Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Corrosion Resistant Alloys market size is expected to reach \$ 5678 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

In 2025, global Corrosion Resistant Alloys production reached approximately 650 kilotons with an average global market price of around US\$ 6,500 per unit, and a gross profit margin of approximately 20%-40%. Corrosion Resistant Alloys are high-performance metallic materials engineered to withstand aggressive chemical, seawater, high-temperature oxidation, and sour-gas environments where conventional steels corrode rapidly. They typically rely on protective passive films formed by elements such as chromium, nickel, molybdenum, and titanium to resist pitting, crevice corrosion, and stress corrosion cracking. These alloys are supplied as plate, pipe, tube, bar, wire, and castings for long-life service in harsh media. They are widely used in oil and gas, chemical processing, desalination, marine equipment, power, and pharmaceuticals. The industrial chain of Corrosion Resistant Alloys includes upstream raw materials such as nickel, chromium, molybdenum, cobalt, titanium, iron units, recycling scrap, fluxes, and alloy additives, plus refractories and vacuum melting consumables. Midstream covers alloy design, melting and refining, remelting, casting, forging, rolling, extrusion, heat treatment, pickling, and precision finishing into semi-finished forms. Downstream users include chemical plants, offshore and subsea systems, refineries, LNG and sour-gas facilities, desalination and water treatment, marine and shipbuilding, and high-purity industries. Supporting links include welding consumables, fabrication, coating, inspection, and corrosion testing services.

The corrosion resistant alloy market is supported by long-life requirements and leakage-risk control in chemical, offshore, and high-salinity environments. Growth is tied to

capacity additions and maintenance spending in oil and gas, refining, petrochemicals, desalination, and marine infrastructure, where downtime and corrosion failures are costly. Demand is shifting toward higher-alloy grades with stronger pitting and SCC resistance, driven by harsher media, higher temperature/pressure operation, and stricter safety standards. Buyers increasingly emphasize traceability, quality consistency, and qualification data, pushing suppliers to invest in refining capability, inspection, and documentation. At the same time, price volatility of nickel and molybdenum affects procurement, encouraging recycling, scrap utilization, and contract strategies. Overall, steady growth is expected as infrastructure ages, seawater utilization expands, and projects prioritize lifecycle cost over initial material cost.

This report studies the global Corrosion Resistant Alloys production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Corrosion Resistant Alloys 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 Corrosion Resistant Alloys that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Corrosion Resistant Alloys total production and demand, 2021-2032, (K MT)

Global Corrosion Resistant Alloys total production value, 2021-2032, (USD Million)

Global Corrosion Resistant Alloys production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Corrosion Resistant Alloys consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Corrosion Resistant Alloys domestic production, consumption, key domestic manufacturers and share

Global Corrosion Resistant Alloys production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Corrosion Resistant Alloys production by Type, production, value, CAGR,

2021-2032, (USD Million) & (K MT)

Global Corrosion Resistant Alloys production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Corrosion Resistant Alloys 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 Haynes, Proterial, Carpenter Technology, Nippon Yakin Kogyo, Eramet, VDM Metals, ATI Materials, Aperam, Special Metals, Outokumpu, 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 Corrosion Resistant Alloys market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) 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 Corrosion Resistant Alloys Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Corrosion Resistant Alloys Market, Segmentation by Type:

Iron-Based

Nickel-Based

Cobalt-Based

Global Corrosion Resistant Alloys Market, Segmentation by Form:

Sheets

Pipes

Others

Global Corrosion Resistant Alloys Market, Segmentation by Corrosion-Resistant Media:

Oxidizing Media

Reducing Media

Global Corrosion Resistant Alloys Market, Segmentation by Application:

Oil & Gas

Transportation

Aerospace & Defense

Others

Companies Profiled:

Haynes

Proterial

Carpenter Technology

Nippon Yakin Kogyo

Eramet

VDM Metals

ATI Materials

Aperam

Special Metals

Outokumpu

Alleima

JFE Steel

Jindal Stainless

Nippon Steel

Key Questions Answered:

1. How big is the global Corrosion Resistant Alloys market?
2. What is the demand of the global Corrosion Resistant Alloys market?
3. What is the year over year growth of the global Corrosion Resistant Alloys market?
4. What is the production and production value of the global Corrosion Resistant Alloys

market?

5. Who are the key producers in the global Corrosion Resistant Alloys market?

6. What are the growth factors driving the market demand?

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