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Global Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems 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 Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems market size was valued at US$ 1438 million in 2025 and is forecast to a readjusted size of US$ 2594 million by 2032 with a CAGR of 7.0% during review period.

In 2025, global shipments of cryogenic steels for LNG storage, transport and cargo containment systems reached approximately 290 thousand tonnes, with a blended average selling price of around USD 4,820 per tonne. Cryogenic steels for LNG storage, transport and cargo containment systems refer to specialty metallic materials used in liquefied natural gas storage, transportation, onboard fuel tanks and cargo containment systems. The product scope mainly covers nickel based cryogenic steel plates, Invar 36 alloy membrane materials, high manganese austenitic cryogenic steels and certified stainless steel membrane materials. These materials are designed to maintain cryogenic toughness, strength, dimensional stability, weldability and structural integrity under LNG service conditions of around minus 162 degrees Celsius, and are mainly applied in onshore LNG storage tanks, LNG carrier cargo containment systems, LNG fueled vessel fuel tanks, LNG bunkering storage systems, floating LNG facility tanks and land based LNG transport containers.

Cryogenic steels for LNG storage, transport and cargo containment systems represent a technically demanding and project-driven segment within the global cryogenic metallic materials market. Demand is not driven by ordinary steel replacement, but by the construction of LNG receiving terminals, liquefaction plants, LNG carriers, LNG fueled

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vessels, FSRUs, FLNG facilities and LNG bunkering infrastructure. The global market size is estimated at approximately USD 1,397.9 million in 2025 and is expected to reach USD 1,677.0 million in 2026, with a compound annual growth rate of around 7.2% from 2026 to 2032. Onshore LNG storage tanks and LNG carrier cargo containment systems remain the largest demand sources, while LNG fueled vessel fuel tanks and LNG bunkering storage systems are expected to provide incremental growth over the medium to long term.

From a product perspective, nickel based cryogenic steel plates such as 9Ni, 7Ni and 5Ni steels remain the mainstream materials for large LNG storage tanks and cryogenic load-bearing structures. Invar 36 alloy membrane materials and certified stainless steel membrane materials are mainly used in membrane type cargo containment systems, while high manganese austenitic cryogenic steels represent an emerging route for nickel reduction, cost optimization and material substitution. Future competition will not be determined by steelmaking capacity alone, but by cryogenic toughness control, heavy plate rolling capability, weldability, class society and GTT related certification, proven project supply records and the ability to work closely with shipyards, tank EPC contractors and energy customers.

In terms of competitive landscape, leading producers are mainly concentrated in Japan, South Korea, Europe, China and a small number of U.S. high performance alloy companies. Japanese and European producers have strong technical accumulation in 9Ni steels, Invar 36 alloys and cryogenic heavy plates. South Korean companies benefit from strong value chain coordination in LNG shipbuilding materials and high manganese cryogenic steels. Chinese producers have accelerated their progress in 9Ni steel, 7Ni steel, Ni36 LNG Invar alloy, Mark III certified stainless steel membrane materials and high manganese cryogenic steels, showing clear improvement in domestic substitution capability. As large LNG storage tanks, LNG fueled vessels and green shipping projects continue to advance, Chinese suppliers are likely to gain a larger role in the global supply chain, although high-end membrane materials, certification systems and stable large-scale project delivery remain the key barriers to global competitiveness.

This report is a detailed and comprehensive analysis for global Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems 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

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selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems market size and forecasts, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems 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 Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems 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 Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems

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 Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems 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 Nippon Steel Corporation, JFE Steel Corporation, Nippon Yakin Kogyo Co., Ltd., POSCO, Hyundai Steel Company, ArcelorMittal, voestalpine

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Grobblech GmbH, Dillinger, Aperam S.A., Acerinox S.A., etc.

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

Market Segmentation

Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems 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

Nickel Alloyed Cryogenic Structural Steel Plates

Fe 36Ni Low Expansion Alloy Membrane Sheets

High Manganese Austenitic Cryogenic Steels

Certified 304L Stainless Steel Membrane Sheets

Other

Market segment by Product Form

Heavy Plates

Thin Sheets

Strips and Coils

Other

Market segment by Material Structure

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Monolithic Steel Materials

Clad Steel Materials

Other

Market segment by Application

Onshore LNG Storage Tanks

LNG Carrier Cargo Containment Systems

LNG Fueled Vessel Fuel Tanks

LNG Bunkering Storage Systems

Floating LNG Facility Tanks

Land Based LNG Transport Containers

Other

Major players covered

Nippon Steel Corporation

JFE Steel Corporation

Nippon Yakin Kogyo Co., Ltd.

POSCO

Hyundai Steel Company

ArcelorMittal

voestalpine Grobblech GmbH

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Dillinger

Aperam S.A.

Acerinox S.A.

ATI Inc.

China Baowu Steel Group Corporation Limited

CITIC Pacific Special Steel Group Co., Ltd.

HBIS Group Co., Ltd.

Ansteel Group Corporation Limited

Hunan Iron and Steel Group Co., Ltd.

Jiangsu Shagang Group Co., Ltd.

Shougang Group Co., Ltd.

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:

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Chapter 1, to describe Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems, with price, sales quantity, revenue, and global market share of Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems from 2021 to 2026.

Chapter 3, the Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems 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 Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems 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 Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems.

Chapter 14 and 15, to describe Cryogenic Steels for LNG Storage, Transport and Cargo Containment Systems sales channel, distributors, customers, research findings and conclusion.

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3 COMPETITIVE ENVIRONMENT: CRYOGENIC STEELS FOR LNG STORAGE, TRANSPORT AND CARGO CONTAINMENT SYSTEMS BY MANUFACTURER

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