

Global Stainless Steel Tubing for Nuclear Power Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Stainless Steel Tubing for Nuclear Power market size is expected to reach \$ 1963 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global sales of Stainless Steel Tubing for Nuclear Power reached 224,000 tons, with an average selling price of \$5,600 per ton. Total global production capacity stood at approximately 268,000 tons, and the industry's overall gross profit margin was around 27%. These products?comprising high-safety-grade seamless or welded stainless steel pipes?are designed specifically for critical systems within the nuclear and conventional islands of nuclear power plants. Typically manufactured from austenitic stainless steels (such as 316L and 304LN) or stabilized stainless steel grades, they undergo processes including precision smelting, hot extrusion, cold rolling, and solution heat treatment. They exhibit excellent radiation resistance, resistance to intergranular corrosion, and stability under high temperature, high pressure, and long-term service conditions. Primarily utilized in coolant transport systems, steam generator auxiliary piping, safety injection systems, and nuclear auxiliary systems, they serve as essential foundational materials for the long-term safe operation of nuclear power plants. Upstream raw materials include high-purity stainless steel billets, nickel-chromium alloying elements, and refining additives; the midstream sector involves integrated manufacturing processes such as smelting, piercing, cold working, and non-destructive testing; and downstream supply chains encompass nuclear engineering general contractors, nuclear island equipment manufacturers, and national energy infrastructure sectors. Future development will focus on ultra-low-carbon, high-purity stainless steel systems, radiation-resistant and long-service-life materials, and specialized piping for Small Modular Reactors (SMRs). Demand growth is driven by the global resurgence and expansion of nuclear power, life-extension upgrades for aging units, and the

advancement of next-generation nuclear technologies, with business opportunities concentrated in the domestic substitution of high-end nuclear-grade stainless steel and the upgrading of materials for new nuclear equipment.

This report studies the global Stainless Steel Tubing for Nuclear Power production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Stainless Steel Tubing for Nuclear Power 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 Stainless Steel Tubing for Nuclear Power that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Stainless Steel Tubing for Nuclear Power total production and demand, 2021-2032, (Kilotons)

Global Stainless Steel Tubing for Nuclear Power total production value, 2021-2032, (USD Million)

Global Stainless Steel Tubing for Nuclear Power production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Stainless Steel Tubing for Nuclear Power consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Stainless Steel Tubing for Nuclear Power domestic production, consumption, key domestic manufacturers and share

Global Stainless Steel Tubing for Nuclear Power production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Stainless Steel Tubing for Nuclear Power production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Stainless Steel Tubing for Nuclear Power production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Stainless Steel Tubing for Nuclear Power 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 TUBACEX, TSINGCO, Plymouth, Montanstahl, Alleima, Nipponsteel, ATI Materials, Thyssenkrupp, MINGTAI, ZHONGXING, 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 Stainless Steel Tubing for Nuclear Power market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Stainless Steel Tubing for Nuclear Power Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Stainless Steel Tubing for Nuclear Power Market, Segmentation by Type:

Seamless Stainless Steel Pipes

Welded Stainless Steel Pipes

Global Stainless Steel Tubing for Nuclear Power Market, Segmentation by Specification:

Specification: 100mm

Global Stainless Steel Tubing for Nuclear Power Market, Segmentation by Material:

Austenitic Stainless Steel Pipes

Duplex Stainless Steel Pipes

Others

Global Stainless Steel Tubing for Nuclear Power Market, Segmentation by Application:

Nuclear Island Primary Circuit Main System

Nuclear Power Auxiliary Systems

Others

Companies Profiled:

TUBACEX

TSINGCO

Plymouth

Montanstahl

Alleima

Nipponsteel

ATI Materials

Thyssenkrupp

MINGTAI

ZHONGXING

ZHONGDA

HUALANG

TW Metals

TMK Group

Wujin Stainless

Key Questions Answered:

1. How big is the global Stainless Steel Tubing for Nuclear Power market?
2. What is the demand of the global Stainless Steel Tubing for Nuclear Power market?
3. What is the year over year growth of the global Stainless Steel Tubing for Nuclear Power market?
4. What is the production and production value of the global Stainless Steel Tubing for Nuclear Power market?
5. Who are the key producers in the global Stainless Steel Tubing for Nuclear Power market?
6. What are the growth factors driving the market demand?

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