

Global Seamless Steel Pipes for Nuclear Power Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GBD2F55CA680EN.html>

Date: August 2026

Pages: 145

Price: US\$ 4,480.00 (Single User License)

ID: GBD2F55CA680EN

Abstracts

The global Seamless Steel Pipes for Nuclear Power market size is expected to reach \$ 2466 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

In 2025, global sales of seamless steel pipes for nuclear power applications reached 385,000 tons, with an average selling price of \$4,200 per ton. Global production capacity stood at approximately 452,000 tons, and the industry's overall gross profit margin was around 29%. These pipes are high-safety-grade seamless steel products specifically designed for the primary circuits and auxiliary systems of nuclear power plants; typically manufactured from high-purity, low-impurity alloy steel or stainless steel using hot rolling, cold drawing, and precision heat treatment, they offer exceptional resistance to radiation, high temperatures, high pressures, and stress corrosion cracking, alongside long-term operational stability. Primarily utilized for steam generator piping, coolant lines, pressure vessel connecting pipes, and auxiliary safety system piping within the nuclear island, they serve as critical foundational materials for the safe operation of nuclear power plants. The upstream sector involves raw materials such as high-purity ferritic steel, austenitic stainless steel, nickel-based alloys, and refined alloying elements; the midstream sector comprises an integrated manufacturing process involving smelting, piercing, rolling, heat treatment, and non-destructive testing; and the downstream sector encompasses nuclear power plant construction firms, nuclear island equipment manufacturers, and national energy engineering systems. Future development will focus on ultra-long-life material systems, upgrades to alloys resistant to extreme corrosion, and specialized piping for Small Modular Reactors (SMRs). Demand growth is primarily driven by the global restart and expansion of nuclear power, life-extension retrofits for aging units, and the commercialization of SMRs, with business opportunities concentrated in the domestic substitution of high-end nuclear-grade

materials and the development of next-generation nuclear safety material systems.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Seamless Steel Pipes 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 Alleima, Framatome, Nipponsteel, YINLONG, Sunny Steel, ZHONGXING, Walsin Lihwa, TSINGCO, LONGCHUAN, Vallourec, 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 Seamless Steel Pipes 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 Seamless Steel Pipes for Nuclear Power Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Seamless Steel Pipes for Nuclear Power Market, Segmentation by Type:

Hot-rolled Seamless Steel Pipes

Cold-drawn/Cold-rolled Precision Seamless Steel Pipes

Extruded Nuclear-grade Seamless Steel Pipes

Global Seamless Steel Pipes for Nuclear Power Market, Segmentation by Specification:

Specification: 150mm

Global Seamless Steel Pipes for Nuclear Power Market, Segmentation by Material:

Austenitic Stainless Steel

Ferritic Alloy Steel

Nickel-based Alloy

Global Seamless Steel Pipes for Nuclear Power Market, Segmentation by Application:

Nuclear Island Primary Circuit Main System

Nuclear Power Auxiliary Systems

Others

Companies Profiled:

Alleima

Framatome

Nipponsteel

YINLONG

Sunny Steel

ZHONGXING

Walsin Lihwa

TSINGCO

LONGCHUAN

Vallourec

Plymouth

Centravis

TMK Group

Jiuli Group

ZHONGSHENG

HENGFAN

Key Questions Answered:

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

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