

Global Molten Salt Reactor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Molten Salt Reactor market size is expected to reach \$ 1886 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

Molten salt reactor is a major type of nuclear fission reactor, in which molten salt plays a crucial role in the core, serving as fuel, coolant, or moderator. Typical molten salt systems include fluoride and chloride salts, characterized by high temperature, low pressure, and the potential for efficient heating and power generation. In 2025, global Molten Salt Reactor production reached approximately 1,627 Units, with an average global market price of around K US\$ 638 per unit.

Thorium based molten salt reactor is a new type of nuclear reactor technology that uses thorium as nuclear fuel and molten fluoride salts as carriers. This type of reactor utilizes thorium material in liquid molten salt to trigger sustained nuclear fission reactions and release energy at high temperatures. The thorium based molten salt reactor is the fourth generation nuclear fission reactor in China. It was officially built and converted from thorium to uranium in 2025, becoming the only operating molten salt reactor in the world and the only nuclear reactor currently built in the Gobi Desert in China.

This report studies the global Molten Salt Reactor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Molten Salt Reactor 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 Molten Salt Reactor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Molten Salt Reactor total production and demand, 2021-2032, (Units)

Global Molten Salt Reactor total production value, 2021-2032, (USD Million)

Global Molten Salt Reactor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Molten Salt Reactor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Molten Salt Reactor domestic production, consumption, key domestic manufacturers and share

Global Molten Salt Reactor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Molten Salt Reactor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Molten Salt Reactor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Molten Salt Reactor 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 Everllence, Kairos Power, Copenhagen Atomics, Terrestrial Energy, ThorCon Power, Transatomic, Flibe Energy, 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 Molten Salt Reactor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) 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 Molten Salt Reactor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Molten Salt Reactor Market, Segmentation by Type:

Thorium Based Molten Salt Reactor

Plutonium Based Molten Salt Reactor

Uranium Based Molten Salt Reactor

Global Molten Salt Reactor Market, Segmentation by Salt System:

Fluoride Salt System

Chloride Salt System

Global Molten Salt Reactor Market, Segmentation by Fuel Form:

Liquid Fuel

Solid Fuel

Global Molten Salt Reactor Market, Segmentation by Application:

Energy and Electricity

Oil and Gas

Other

Companies Profiled:

Everllence

Kairos Power

Copenhagen Atomics

Terrestrial Energy

ThorCon Power

Transatomic

Flibe Energy

Key Questions Answered:

1. How big is the global Molten Salt Reactor market?
2. What is the demand of the global Molten Salt Reactor market?
3. What is the year over year growth of the global Molten Salt Reactor market?

4. What is the production and production value of the global Molten Salt Reactor market?
5. Who are the key producers in the global Molten Salt Reactor market?
6. What are the growth factors driving the market demand?

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