

Global Nuclear Fusion Divertor Target Plate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nuclear Fusion Divertor Target Plate market size is expected to reach \$ 85.87 million by 2032, rising at a market growth of 14.0% CAGR during the forecast period (2026-2032).

The nuclear fusion divertor target plate is a plasma direct contact component installed in the divertor of the nuclear fusion device. Its main function is to withstand and dissipate the extremely high heat flux and particle bombardment from the plasma, while guiding impurities and helium ash out of the reaction zone, thereby protecting the first wall and vacuum chamber structure. Its typical structure is a composite system of 'tungsten plasma facing material+copper alloy heat sink+internal high-efficiency cooling channel', which is one of the core components determining the operating life and safety of fusion devices. In the next generation of fusion devices, controlling the thermal load of the divertor faces challenges. On the one hand, the polarizer target plate needs to withstand extremely high steady-state thermal loads; On the other hand, in high constraint modes, the plasma boundary will generate a periodic instability called edge localized mode (ELM), and the transient thermal load generated by it may damage the internal components of the device and introduce impurities. Usually, injecting light impurity gas into the off target state of the divertor is used to alleviate its steady-state heat load. However, deep off target often cools the pedestal region at the edge of the plasma, leading to a decrease in performance. The previous implementation of ELM free operation was often accompanied by degradation of platform performance. Therefore, exploring a steady-state operating mode that can simultaneously achieve off target of the polarizer, completely suppress ELM, and maintain high-performance platform is an important goal of international fusion research. In 2025, global Nuclear Fusion Divertor Target Plate production reached approximately 38 Units, with an average global market price of around K US\$ 896 per Unit. The annual production

capacity of nuclear fusion divertor target plates is 50 units, with a gross profit of about 30%.

Upstream: tungsten and tungsten alloys; copper alloy; Welding and connection materials.

Downstream: nuclear fusion experimental devices (such as ITER EAST, etc.); Integration of biased filter system; Demonstration reactor and future commercial fusion power plant.

The cost of high-performance materials accounts for 40% -50%; Precision manufacturing and connection costs account for 25% -30%; R&D and testing costs account for 15% -20%; Quality control and certification costs account for 5% -10%; Transportation and integration costs account for 3% -5%.

This report studies the global Nuclear Fusion Divertor Target Plate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nuclear Fusion Divertor Target Plate 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 Nuclear Fusion Divertor Target Plate that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nuclear Fusion Divertor Target Plate total production and demand, 2021-2032, (Units)

Global Nuclear Fusion Divertor Target Plate total production value, 2021-2032, (USD Million)

Global Nuclear Fusion Divertor Target Plate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Nuclear Fusion Divertor Target Plate consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Nuclear Fusion Divertor Target Plate domestic production, consumption, key domestic manufacturers and share

Global Nuclear Fusion Divertor Target Plate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Nuclear Fusion Divertor Target Plate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Nuclear Fusion Divertor Target Plate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Nuclear Fusion Divertor Target Plate 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 Advanced Technology & Materials (China), Hitachi(Japan), Mitsubishi Heavy Industries(Japan), 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 Nuclear Fusion Divertor Target Plate market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Nuclear Fusion Divertor Target Plate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Fusion Divertor Target Plate Market, Segmentation by Type:

Outer Target

Inner Target

Global Nuclear Fusion Divertor Target Plate Market, Segmentation by Structural Type:

Monoblock Target

Flat Tile Target

Global Nuclear Fusion Divertor Target Plate Market, Segmentation by Application:

Tokamak Device

Star Simulator Device

Other

Companies Profiled:

Advanced Technology & Materials (China)

Hitachi(Japan)

Mitsubishi Heavy Industries(Japan)

Key Questions Answered:

1. How big is the global Nuclear Fusion Divertor Target Plate market?
2. What is the demand of the global Nuclear Fusion Divertor Target Plate market?
3. What is the year over year growth of the global Nuclear Fusion Divertor Target Plate

market?

4. What is the production and production value of the global Nuclear Fusion Divertor Target Plate market?

5. Who are the key producers in the global Nuclear Fusion Divertor Target Plate market?

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

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