

Global Hafnium Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Hafnium market size is expected to reach \$ 167.5 million by 2029, rising at a market growth of 5.6% CAGR during the forecast period (2023-2029).

The global key hafnium producers are Framatome, Australian Strategic , Materials (ASM), ATI, Chepetsky Mechanical Plant, Nanjing Youtian , Metal Technology, CNNC Jinghuan and others. The top two manufacturers jointly occupy 75% of the market share, with the largest manufacturer being Framatome, which has a 40% share. Global origins are mainly located in North America, Europe, China, Korea, etc., with Europe being the largest production region with a share of 55%. In terms of categories, hafnium crystal bars hold the largest market share with 60%, followed by hafnium sponge with 35%. As far as its applications are concerned, super alloy is its top application area with a 70% market share; followed by nuclear and plasma cutting.

Hafnium is a chemical element, chemical symbol is Hf, and its atomic number is 72, atomic weight of 178.49. It is a shiny silver-grey transition metal with a melting point of 2233°C, boiling point of 4602°C, and density of 13.31 g/cm³. The nature of dense hafnium metal is not active, the surface of the formation of oxide coating, at room temperature is very stable, powder hafnium easy to spontaneous combustion in air. Hafnium has a strong ability to absorb hydrogen and can form up to HfH_{2.1}. Hafnium reacts with nitrogen at high temperatures. Due to the contraction of the lanthanide series, the atomic radius of the hafnium is almost the same as that of the zirconium, so the hafnium is very similar to the zirconium in nature and is difficult to separate, it mainly because the density of the hafnium is twice that of the zirconium. Hafnium does not act with dilute hydrochloric acid, dilute sulfuric acid and strong alkali solution, but soluble in hydrofluoric acid. Hafnium has an oxidation state of +2, +3, +4, among which the +4 valence compound is the most stable. Hafnium is used in filaments and electrodes.

Some semiconductor fabrication processes use its oxide for integrated circuits at 45 nm and smaller feature lengths. Some super alloys used for special applications contain hafnium in combination with niobium, titanium, or tungsten.

This report studies the global Hafnium production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hafnium, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hafnium that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hafnium total production and demand, 2018-2029, (MT)

Global Hafnium total production value, 2018-2029, (USD Million)

Global Hafnium production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (MT)

Global Hafnium consumption by region & country, CAGR, 2018-2029 & (MT)

U.S. VS China: Hafnium domestic production, consumption, key domestic manufacturers and share

Global Hafnium production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (MT)

Global Hafnium production by Type, production, value, CAGR, 2018-2029, (USD Million) & (MT)

Global Hafnium production by Application production, value, CAGR, 2018-2029, (USD Million) & (MT)

This reports profiles key players in the global Hafnium 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 Framatome, Australian Strategic Materials (ASM), ATI, Chepetsky Mechanical Plant, Nanjing Youtian Metal Technology and CNNC Jinghuan, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hafnium market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (USD/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Hafnium Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hafnium Market, Segmentation by Type

Hafnium Sponge

Hafnium Crystal Bar

Others

Global Hafnium Market, Segmentation by Application

Super Alloy

Nuclear

Plasma Cutting

Others

Companies Profiled:

Framatome

Australian Strategic Materials (ASM)

ATI

Chepetsky Mechanical Plant

Nanjing Youtian Metal Technology

CNNC Jinghuan

Key Questions Answered

1. How big is the global Hafnium market?
2. What is the demand of the global Hafnium market?

3. What is the year over year growth of the global Hafnium market?
4. What is the production and production value of the global Hafnium market?
5. Who are the key producers in the global Hafnium market?
6. What are the growth factors driving the market demand?

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