

Hafnium Market - Global Outlook and Forecast 2022-2028

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Abstracts

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 contains market size and forecasts of Hafnium in global, including the following market information:

Global Hafnium Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Hafnium Market Sales, 2017-2022, 2023-2028, (MT)

Global top five Hafnium companies in 2021 (%)

The global Hafnium market was valued at 74 million in 2021 and is projected to reach US\$ 108.1 million by 2028, at a CAGR of 5.6% during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Hafnium Sponge Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Hafnium include Alkane Resources, Orano, ATI, CNNC Jinghuan and Nanjing Youtian Metal Technology, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Hafnium manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Hafnium Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (MT)

Global Hafnium Market Segment Percentages, by Type, 2021 (%)

Hafnium Sponge

Hafnium Crystal Bar

Others

Global Hafnium Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (MT)

Global Hafnium Market Segment Percentages, by Application, 2021 (%)

Super Alloy

Nuclear

Plasma Cutting

Others

Global Hafnium Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (MT)

Global Hafnium Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Hafnium revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Hafnium revenues share in global market, 2021 (%)

Key companies Hafnium sales in global market, 2017-2022 (Estimated), (MT)

Key companies Hafnium sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Alkane Resources

Orano

ATI

CNNC Jinghuan

Nanjing Youtian Metal Technology

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