

Global MXene Material Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global MXene Material market size is expected to reach \$ 128.4 million by 2029, rising at a market growth of 23.0% CAGR during the forecast period (2023-2029).

Global 5 largest manufacturers of MXene Material are American Elements, Beike 2D Materials, Sigma-Aldrich (Merck), Nanjing XFNANO Materials and Japan Material Technologies Corporation (JMTC), which make up over 43%. Among them, American Elements is the leader with about 10% market share. Asia-Pacific is the largest market, with a share about 40%, followed by North America and Europe, with the share about 33% and 23%. In terms of product type, Ti-based occupy the largest share of the total market, about 63%. And in terms of product Application, the largest application is Energy Storage, followed by Optoelectronics.

MXene is a class of two-dimensional (2D) materials that were first discovered in 2011. MXene materials are derived from layered transition metal carbides, nitrides, or carbonitrides, known as MAX phases. The term 'MAX' refers to the combination of M (transition metal), A (group 13 or 14 element), and X (carbon and/or nitrogen). 2D layered materials derived from MAX or non-MAX phases were not predicted to exist before this discovery. Unlike most 2D ceramics, MXenes have inherently good conductivity and excellent volumetric capacitance because they are molecular sheets made from the carbides and nitrides of transition metals like titanium. MXenes have already found applications ranging from energy storage to medicine and optoelectronics.

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

This report is a detailed and comprehensive analysis of the world market for MXene Material, 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 MXene Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global MXene Material total production and demand, 2018-2029, (Kg)

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

Global MXene Material production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Kg)

Global MXene Material consumption by region & country, CAGR, 2018-2029 & (Kg)

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

Global MXene Material production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Kg)

Global MXene Material production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Kg)

Global MXene Material production by Application production, value, CAGR, 2018-2029, (USD Million) & (Kg).

This reports profiles key players in the global MXene Material 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 American Elements, Sigma-Aldrich (Merck), Japan Material Technologies Corporation (JMTC), Alfa Chemistry, Beike 2D Materials, ACS Material, Nanjing XFNANO Materials, Beijing Zhongkeleiming Technology and 6Carbon Technology (ShenZhen), 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 MXene Material market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kg) and average price (US\$/g) 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 MXene Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MXene Material Market, Segmentation by Type

Ti-based

V-based

Nb-based

Mo-based

Others

Global MXene Material Market, Segmentation by Application

Energy Storage

Optoelectronics

Environmental

Biomedical

Photocatalysis

Others

Companies Profiled:

American Elements

Sigma-Aldrich (Merck)

Japan Material Technologies Corporation (JMTC)

Alfa Chemistry

Beike 2D Materials

ACS Material

Nanjing XFNANO Materials

Beijing Zhongkeleiming Technology

6Carbon Technology (ShenZhen)

Nanoshel

Foshan Xixi Technology

Key Questions Answered

1. How big is the global MXene Material market?
2. What is the demand of the global MXene Material market?
3. What is the year over year growth of the global MXene Material market?
4. What is the production and production value of the global MXene Material market?
5. Who are the key producers in the global MXene Material market?
6. What are the growth factors driving the market demand?

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