

High Purity Methane Gas Market: Segmented by Type (Chemical synthesis, Heat detection, Hydrogen Fuel and Others), By Application (Medical, Automotive, Defense, Electronics and Others), and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030

<https://marketpublishers.com/r/HC1EBCAAC388EN.html>

Date: November 2021

Pages: 161

Price: US\$ 5,000.00 (Single User License)

ID: HC1EBCAAC388EN

Abstracts

[174+ Pages Research Report] Global High Purity Methane Gas Market to surpass USD 11.2 billion by 2030 from USD 6.6 billion in 2020 at a CAGR of 6.1% in the coming years, i.e., 2021-30.

Product Overview

High-purity methane gas is used in the manufacturing process of electronics devices like silicon wafers, solar cells, semiconductors, and electronic components. In the fields of cutting-edge technologies such as nanoparticle diamond, graphene, and monocrystal diamond, high-purity methane gas is garnering interest. Because of its low cost, great efficiency, and low striking voltage, high-purity methane gas is employed in fluorescent tubes for lighting reasons in this business.

Market Highlights

Global High Purity Methane Gas market is expected to project a notable CAGR of 6.1% in 2030.

Due to its unique qualities, high purity methane gas finds employment in a variety of end-use industries, including electrical and electronics, chemical, oil and gas, automotive and transportation, medicinal, and others. This is expected to surge growth of the market for high purity methane gas.

Global High Purity Methane Gas: Segments

Chemical synthesis segment to grow with the highest CAGR during 2020-30

Global High Purity Methane Gas market is segmented by type into Chemical synthesis, Heat detection, Hydrogen Fuel, and Others. Chemical synthesis segment held the largest market share in the year 2020. The increased need for high-purity methane gas as a raw material for the manufacturing of methanol, synthetic ammonia, hydrogen, acetylene, carbon black, and carbon disulfide, among other products, is driving this segment's expansion.

Electronics segment to grow with the highest CAGR during 2020-30

Global High Purity Methane Gas market is divided by application into Medical, Automotive, Defense, Electronics, and Others. Over the forecast period, the electronics segment is projected to expand at the fastest pace. The electrical and electronics industries rely heavily on high purity methane gas. Because of its low cost, great efficiency, and low striking voltage, high-purity methane gas is employed in fluorescent tubes for lighting reasons in this business. The high purity methane gas market is being driven by the increasing use of high purity methane gas in the electronics and chemical sectors.

Market Dynamics

Drivers

Growing use of graphene and various applicants

High purity gases are utilized in silicon wafers, integrated circuits (IC), semiconductors, and solar cell devices, among other electronic components. Low optical absorbance, high electrical conductivity, high charge mobility, flexibility, and bendability are all features of graphene, which is made from high purity methane gas. Carbon atoms are organized in a honeycomb configuration in graphene, which is only one atom thick. Microchips and transistors, both fundamental components in almost all electrical devices, are made from graphene. As a result, the market for high purity methane gas is being driven by the growing use of graphene for electronic components and semiconductors, as well as the increasing capacity of installed semiconductors, integrated circuits used in various electronic equipment, and the development of new technologies.

Increased demand from electronics and automotive industry

Rising demand from the electronics industry due to its heavy reliance on high purity methane gas as it has low cost and greater efficiency and low striking voltage is expected to drive demand. Additionally, growing Demand from chemical synthesis applications and increasing demand of hydrogen as a cleaning fuel in the automotive industry.

Restraint

High cost and environmental issues

High cost associated with the methane gas is expected to hamper the market. There are also certain political and environmental hurdles that are limiting the market's growth, such as the exploitation of natural gas deposits in various regions and the environmental dangers involved with the use of methanol as a fuel.

Global High Purity Methane Gas: Key Players

BASF

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Osaka Gas

Sumitomo Seika

Linde Plc.

Air Liquide

Matheson Tri-Gas Inc

Xergi

Other Prominent Players

Global High Purity Methane Gas: Regions

Global High Purity Methane Gas market is segmented based on regional analysis into five major regions. These include North America, Latin America, Europe, Asia Pacific, and the Middle East, and Africa. The market in North America is expected to hold highest CAGR over the forecasted period due to significant demand from the electronic, electrical, construction, information technology, and healthcare industries. North America is the world's largest and fastest-growing market for high-purity methane gas, with the United States as the most important emerging market. The rapid increase in demand for High Purity Methane Gas from the electrical and electronic industries, as

well as the chemical industry, can be ascribed to the expansion. The United States is a large producer of high purity methane gas and has the highest use of the gas.

Global High Purity Methane Gas is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa, and Rest of MENA

Global High Purity Methane Gas report also contains analysis on:

High Purity Methane Gas Segments:

By Type

Chemical synthesis

Heat detection

Hydrogen Fuel

Others

By Application

Medical

Automotive

Defense

Electronics

Others

High Purity Methane Gas Dynamics

High Purity Methane Gas Size

Supply & Demand

Current Trends/Issues/Challenges

Competition & Companies Involved in the Market

Value Chain of the Market

Market Drivers and Restraints

High Purity Methane Gas Market Report Scope and Segmentation

Report Attribute Details

Market size value in 2020 USD 6.6 billion

Revenue forecast in 2030 USD 11.2 billion

Growth Rate CAGR of 6.1% from 2021 to 2030

Base year for estimation 2020

Quantitative units Revenue in USD million and CAGR from 2021 to 2030

Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Segments covered Type, end-user, and Region

Regional scope North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA)

Key companies profiled BASF, Osaka Gas, Sumitomo Seika, Linde Plc., Air Liquide, Matheson Tri-Gas Inc, Xergi, and Other Prominent Players.

Contents

1. EXECUTIVE SUMMARY

2. GLOBAL HIGH PURITY METHANE GAS MARKET

- 2.1. Product Overview
- 2.2. Market Definition
- 2.3. Segmentation
- 2.4. Assumptions and Acronyms

3. RESEARCH METHODOLOGY

- 3.1. Research Objectives
- 3.2. Primary Research
- 3.3. Secondary Research
- 3.4. Forecast Model
- 3.5. Market Size Estimation

4. AVERAGE PRICING ANALYSIS

5. MACRO-ECONOMIC INDICATORS

6. MARKET DYNAMICS

- 6.1. Growth Drivers
- 6.2. Restraints
- 6.3. Opportunity
- 6.4. Trends

7. CORRELATION & REGRESSION ANALYSIS

- 7.1. Correlation Matrix
- 7.2. Regression Matrix

8. RECENT DEVELOPMENT, POLICIES & REGULATORY LANDSCAPE

9. RISK ANALYSIS

9.1. Demand Risk Analysis

9.2. Supply Risk Analysis

10. GLOBAL HIGH PURITY METHANE GAS MARKET ANALYSIS

10.1. Porters Five Forces

10.1.1. Threat of New Entrants

10.1.2. Bargaining Power of Suppliers

10.1.3. Threat of Substitutes

10.1.4. Rivalry

10.2. PEST Analysis

10.2.1. Political

10.2.2. Economic

10.2.3. Social

10.2.4. Technological

11. GLOBAL HIGH PURITY METHANE GAS MARKET

11.1. Market Size & forecast, 2020A-2030F

11.1.1. By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

11.1.2. By Volume (Million Units) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12. GLOBAL HIGH PURITY METHANE GAS MARKET: MARKET SEGMENTATION

12.1. By Regions

12.1.1. North America:(U.S. and Canada), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.2. Latin America: (Brazil, Mexico, Argentina, Rest of Latin America), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.3. Europe: (Germany, UK, France, Italy, Spain, BENELUX, NORDIC, Hungary, Poland, Turkey, Russia, Rest of Europe), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.4. Asia-Pacific: (China, India, Japan, South Korea, Indonesia, Malaysia, Australia, New Zealand, Rest of Asia Pacific), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.5. Middle East and Africa: (Israel, GCC, North Africa, South Africa, Rest of Middle East and Africa), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.2. By Type : Market Share (2020-2030F)

12.2.1. Chemical Synthesis, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.2.2. Heat detection, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.2.3. Hydrogen Fuel, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.2.4. Other, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.3. By Application: Market Share (2020-2030F)

12.3.1. Medical, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.3.2. Automotive, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.3.3. Defense, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.3.4. Electronics, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.3.5. Other, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

13 COMPANY PROFILE

13.1. BASF

13.1.1. Company Overview

13.1.2. Company Total Revenue (Financials)

13.1.3. Market Potential

13.1.4. Global Presence

13.1.5. Key Performance Indicators

13.1.6. SWOT Analysis

13.1.7. Product Launch

13.2. Osaka Gas

13.3. Sumitomo Seika

13.4. Linde Plc.

13.5. Air Liquide

13.6. Matheson Tri-Gas Inc

13.7. Xergi

13.8. Other Prominent Players

14 CONSULTANT RECOMMENDATION

**The above given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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