

Acetylene Gas Market Report by Production Method (Calcium Carbide, Hydrocarbon Pyrolysis), Application (Chemical Synthesis, Welding and Cutting, Metal Fabrication, and Others), and Region 2024-2032

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Abstracts

The global acetylene gas market size reached US\$ 6.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 7.5 Billion by 2032, exhibiting a growth rate (CAGR) of 2.4% during 2024-2032.

Acetylene is a colourless combustible gas that is produced through the combination of calcium carbonate and water. It can also be generated using hydrocarbons, such as coal, crude oil, and naphtha, and becomes highly explosive when it is liquified, compressed, heated or mixed with air. This gas is most commonly used as an intermediate for the manufacturing of chemicals and cutting and welding functions in metalworking applications. It is also used for the manufacturing of commercial dry-cell batteries and acetylic alcohols and finds extensive applications across various industries, including chemical, automotive, transportation, aerospace and pharmaceutical.

The market is primarily being driven by the significant growth in the chemical industry, along with rapid industrialization across the globe. Owing to its high flame-temperature properties, acetylene gas is extensively used for various metalworking applications, including oxyacetylene cutting, heat treating, soldering, brazing and welding. In comparison to the traditionally used oxygen-based fuels, the combination of oxyacetylene provides faster piercing and preheating. This offers improved cutting quality, speed and cut initiation time, thereby leading to enhanced efficiency and widespread utilization of the gas across industries. Furthermore, acetylene gas is also

utilized for the synthesis of various chemicals, such as acetic anhydride, acetic acid and acetaldehyde. Apart from this, it finds applications in the glass and materials processing industries for carbon coating as it aids in creating lubrication between the material surfaces. Other factors, including extensive research and development (R&D) activities focused on generating the gas from biogas and other bio-based fuels, are also providing a boost to the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global acetylene gas market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on production method and application.

Breakup by Production Method:

Calcium Carbide

Hydrocarbon Pyrolysis

Breakup by Application:

Chemical Synthesis

Welding and Cutting

Metal Fabrication

Others

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being Airgas, Inc., BASF SE, China Petroleum and Chemical Corporation, Gulf Cyro, Hebei Xingyu Chemical Co. Ltd., Ilmo Products Company, Linde Plc, Praxair, Inc., Shandong Xinlong Group Co. Ltd., Suzhou Jinhong Gas Co. Ltd., Dow Chemical Company, Toho Acetylene Co. Ltd., etc.

Key Questions Answered in This Report

1. What was the size of the global acetylene gas market in 2023?
2. What is the expected growth rate of the global acetylene gas market during 2024-2032?
3. What are the key factors driving the global acetylene gas market?
4. What has been the impact of COVID-19 on the global acetylene gas market?
5. What is the breakup of the global acetylene gas market based on the production method?
6. What is the breakup of the global acetylene gas market based on the application?
7. What are the key regions in the global acetylene gas market?
8. Who are the key players/companies in the global acetylene gas market?

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