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US Collection

Helium: United States

August 2017



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About This Report

Scope & Method

This report forecasts US demand for Grade-A (99.997% purity or greater) helium in million cubic meters of contained helium gas to 2021. Total demand is segmented by end use in terms of:

- cryogenics
- controlled atmosphere
- purging and pressuring
- welding
- leak detection
- breathing mixtures
- other end uses such as lifting gas, chromatography, and heat transfer.

Re-exports of helium are excluded from trade figures.

To illustrate historical trends, total demand and the various segments are provided in annual series from 2006 to 2016.

This report quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Helium: United States (FF65037) represents the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers

About This Report

- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group.

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 4 | Industry Codes Related to Helium

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
325120	Industrial Gas Manufacturing	2813	Industrial Gases
424690	Other Chemical and Allied Products Merchant Wholesalers	5169	Chemical and Allied Products, NEC

Source: US Census Bureau

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Resources

The Freedonia Group

Freedonia Industry Studies

Proppants Market in North America, July 2017

Air Conditioning Equipment Market in the US, May 2017

Medical Imaging Products, September 2015

Freedonia Focus Reports

Healthcare Insurance: United States

Industrial Gases: United States

Insulated Wire & Cable: United States

Medical Equipment & Supplies: United States

Natural Gas: United States

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Trade Publications

Chemical & Engineering News

CryoGas International

Gases & Instrumentation International

Gasworld

IHS Chemical Week

Oil & Gas Journal

Agencies & Associations

The Balloon Council

Compressed Gas Association

Gases and Welding Distributors Association

Organisation for Economic Co-operation and Development

United States Census Bureau

United States Department of the Interior

Bureau of Land Management

United States Geological Survey

United States International Trade Commission