

Global Liquid Helium Dewar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Helium Dewar market size is expected to reach \$ 878 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Liquid helium Dewar is a key equipment for the storage, transportation, and distribution of liquid helium, and is also an important component of the low-temperature system in the liquid helium temperature range. The liquid helium Dewar tank consists of two circular stainless steel tanks separated by vacuum, and the outer tank body is wrapped with a layer of insulation material around it. The liquid helium Dewar tank can store a large amount of liquid helium for researchers to conduct low-temperature experiments and research. The characteristics of liquid helium Dewar tanks are corrosion resistance, good insulation, strong sealing, low density, low temperature loss, long service life, and so on. In 2025, global Liquid Helium Dewar production reached approximately 14,653 Units, with an average global market price of around US\$ 38,567 per Unit. The annual production capacity of liquid helium Dewar is 20,000 units, with a gross profit margin of about 30%.

The upstream mainly consists of metal and insulation materials and key manufacturing accessories, including stainless steel plate pipes and flange forgings, aluminum alloy structural components, insulation materials such as multi-layer insulation materials, vacuum materials and adsorbents, low-temperature valves and pipeline components, pressure gauges and safety valves, welding materials and brazing materials, vacuum pumps and leak detectors, and other manufacturing and testing equipment. The midstream is a manufacturer of Dewar, which completes the forming and welding of inner and outer shells, vacuum interlayer evacuation, insulation system assembly, leak detection and performance testing, surface treatment and final assembly. The downstream mainly includes the operation guarantee and supply chain of MRI and NMR

related systems, SQUID and bio magnetic systems such as cardiac magnetic brain magnetic, low-temperature physics and materials laboratory, semiconductor low-temperature testing platform, superconducting engineering demonstration and quantum research platform, as well as industrial gas companies and low-temperature engineering service providers as channels and maintenance parties.

The cost structure of liquid helium Dewar typically consists of materials, manufacturing, testing and certification, and delivery. The material end accounts for the highest proportion, commonly ranging from 45% to 60%, with stainless steel and aluminum, valve and pipeline components, and multi-layer insulation materials being the majority. Manufacturing, processing, and assembly account for approximately 20% to 30%, including key processes such as forming, welding, vacuum system assembly, baking, evacuation, and sealing. The proportion of detection and quality control is about 5% to 10%, including helium mass spectrometry leak detection, vacuum retention testing, evaporation rate testing, and pressure testing. Certification, compliance, and process validation account for approximately 3% to 8%, involving certification, process evaluation, and documentation related to pressure vessels. The proportion of packaging, transportation, installation, and after-sales service is about 5% to 15%, and the proportion will increase for large-sized products or cross-border deliveries.

This report studies the global Liquid Helium Dewar production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Helium Dewar and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Liquid Helium Dewar that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Helium Dewar total production and demand, 2021-2032, (Units)

Global Liquid Helium Dewar total production value, 2021-2032, (USD Million)

Global Liquid Helium Dewar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Liquid Helium Dewar consumption by region & country, CAGR, 2021-2032 &

(Units)

U.S. VS China: Liquid Helium Dewar domestic production, consumption, key domestic manufacturers and share

Global Liquid Helium Dewar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Liquid Helium Dewar production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Liquid Helium Dewar production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Liquid Helium Dewar 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 Tristan Technologies, Air Products, Cryofab, Chart Industries, CRYO Industries, Wessington Cryogenics, IRLabs, Physike Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Liquid Helium Dewar market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Liquid Helium Dewar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Helium Dewar Market, Segmentation by Type:

Liquid Helium Transport Dewars

Liquid Helium Storage Dewars

Global Liquid Helium Dewar Market, Segmentation by Material:

Stainless Steel

Aluminum

Global Liquid Helium Dewar Market, Segmentation by Volume:

60L

100L

250L

500L

Other

Global Liquid Helium Dewar Market, Segmentation by Application:

Superconducting and Quantum Devices

Scientific Research and University Laboratories

Other

Companies Profiled:

Tristan Technologies

Air Products

Cryofab

Chart Industries

CRYO Industries

Wessington Cryogenics

IRLabs

Physike Technology

Key Questions Answered:

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

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