

Global R402B Refrigerant Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global R402B Refrigerant market size is expected to reach \$ 357 million by 2032, rising at a market growth of 4.3% CAGR during the forecast period (2026-2032).

In 2025, global R402B refrigerant production reached approximately 19879 tons, the average price is 13000 usd/ton. R402B, also known as HP81, is an HCFC blend with a small amount of hydrocarbon included to improve mineral oil compatibility. The blend is designed to be a retrofit replacement for R502 in medium temperature refrigeration applications. Refrigerant is a substance used in refrigeration systems that undergoes phase changes from gas to liquid and vice versa to transfer heat energy. It plays a crucial role in absorbing heat from the environment to cool an area or object. Refrigerants typically have low boiling points and are capable of vaporizing at relatively low temperatures, absorbing heat in the process. They are commonly used in air conditioners, refrigerators, and other cooling systems. Refrigerants should be chemically stable, non-toxic, environmentally friendly, and have minimal impact on the ozone layer to ensure safe and sustainable cooling operations.

Market Concentration and Major Players:

Internationally, the R402B refrigerant market is highly concentrated, primarily in developed countries in Europe and America. Large manufacturers include Chemours and Honeywell. Domestically, R402B refrigerant still has significant room for development.

Manufacturing Process and Market Trends:

R402B is not a new molecule synthesized through chemical reactions. Instead, it uses

high-purity R22, R125, and a small amount of propane as ready-made components. These are precisely mixed in a controlled environment with a fixed ratio. Throughout the process, moisture and acidic impurities must be kept very low, and constant temperature and pressure must be maintained to prevent gas-liquid stratification and component drift. After mixing, residue and purity checks are performed before pressurization and sealing into pressurized steel cylinders for distribution to after-sales maintenance. Therefore, the core competitiveness of this type of product lies more in the engineering details of metering consistency, cleanliness control, and liquid phase extraction from the cylinders, rather than in the reactor process.

Its market logic also follows this mixed + after-sales attribute, because its original value was to provide a relatively convenient replacement path for old systems that originally ran R502, without having to immediately tear down and rebuild the compressor and piping. However, as ozone and high GWP regulations tighten the supply of HCFC-related products, the focus of new supply has gradually given way to low GWP alternative routes and natural working fluid solutions. R402B is more like a residual demand supported by the lifespan of existing equipment and the inertia of cold chain operations. The industry chain's survival mode has shifted from selling tonnage to a networked service capability centered around leak detection, recycling, regeneration, and compliance records.

This report studies the global R402B Refrigerant production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for R402B Refrigerant 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 R402B Refrigerant that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global R402B Refrigerant total production and demand, 2021-2032, (Tons)

Global R402B Refrigerant total production value, 2021-2032, (USD Million)

Global R402B Refrigerant production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global R402B Refrigerant consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: R402B Refrigerant domestic production, consumption, key domestic

manufacturers and share

Global R402B Refrigerant production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global R402B Refrigerant production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global R402B Refrigerant production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global R402B Refrigerant 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 Chemours (USA), Honeywell (USA), A-Gas (UK), National Refrigerants (USA), Hudson Technologies (USA), Zhejiang Sanmei Chemical(China), Zhejiang Ze China Fluorochemical(China), Rongqiang Chemical(China), 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 R402B Refrigerant market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 R402B Refrigerant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global R402B Refrigerant Market, Segmentation by Type:

Disposable Steel Cylinders

Refillsble Steel Cylinders

Global R402B Refrigerant Market, Segmentation by Application:

Industrial Refrigeration

Commercial Refrigeration

Companies Profiled:

Chemours (USA)

Honeywell (USA)

A-Gas (UK)

National Refrigerants (USA)

Hudson Technologies (USA)

Zhejiang Sanmei Chemical(China)

Zhejiang Ze China Fluorochemical(China)

Rongqiang Chemical(China)

Key Questions Answered:

1. How big is the global R402B Refrigerant market?
2. What is the demand of the global R402B Refrigerant market?
3. What is the year over year growth of the global R402B Refrigerant market?
4. What is the production and production value of the global R402B Refrigerant market?
5. Who are the key producers in the global R402B Refrigerant market?
6. What are the growth factors driving the market demand?

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