

Global High-Purity Ammonia for Semiconductors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-Purity Ammonia for Semiconductors market size is expected to reach \$ 2414 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

High-Purity Ammonia for Semiconductors (semiconductor-grade NH₃) refers to ammonia gas with purity typically ranging from 5N to 7N (99.999%–99.99999%), used in semiconductor fabrication processes such as CVD/ALD deposition, wafer cleaning, nitridation, and etching. It requires ultra-low levels of metallic impurities, moisture, and particles to ensure device yield and process stability. In 2025, global High-Purity Ammonia for Semiconductors production reached approximately 230.52 Kilotons. The upstream consists of conventional ammonia production via Haber-Bosch synthesis and industrial gas feedstock supply. The gas is further purified through multi-stage distillation, adsorption, cryogenic separation, and ultra-high purity filtration to achieve semiconductor-grade quality.

High-Purity Ammonia for Semiconductors (Electronic Grade / Ultra-High Purity NH₃) is a critical segment of the electronic specialty gases market and serves as an essential process gas in semiconductor manufacturing. It is widely used in key processes such as chemical vapor deposition (CVD), atomic layer deposition (ALD), nitridation, wafer cleaning, and etching. With the continuous scaling of semiconductor technology nodes toward advanced geometries (28nm and below, particularly 7nm, 5nm, and 3nm) and the rapid expansion of compound semiconductors such as SiC and GaN, purity requirements for ammonia have significantly increased. Industrial standards have evolved from 5N (99.999%) to 6N–7N ultra-high purity levels, with extremely tight control over metallic impurities, moisture, and particulate contamination.

This report studies the global High-Purity Ammonia for Semiconductors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-Purity Ammonia for Semiconductors 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 High-Purity Ammonia for Semiconductors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-Purity Ammonia for Semiconductors total production and demand, 2021-2032, (Kilotons)

Global High-Purity Ammonia for Semiconductors total production value, 2021-2032, (USD Million)

Global High-Purity Ammonia for Semiconductors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global High-Purity Ammonia for Semiconductors consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: High-Purity Ammonia for Semiconductors domestic production, consumption, key domestic manufacturers and share

Global High-Purity Ammonia for Semiconductors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global High-Purity Ammonia for Semiconductors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global High-Purity Ammonia for Semiconductors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global High-Purity Ammonia for Semiconductors 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 Merck, Air Products and Chemicals, Linde (Praxair), Sumitomo Seika Chemical, Haining Indusair Electronics, Resonac (Showa Denko), Air Liquide, Suzhou Jinhong Gas Co., Ltd., Guangdong Huate Gas Co., Ltd., Daesung Group, 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 High-Purity Ammonia for Semiconductors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/kg) 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 High-Purity Ammonia for Semiconductors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Purity Ammonia for Semiconductors Market, Segmentation by Type:

5N

6N

7N

Global High-Purity Ammonia for Semiconductors Market, Segmentation by Process Use:

CVD/ALD Thin Film Deposition

Nitridation

Wafer Cleaning

Etching

Global High-Purity Ammonia for Semiconductors Market, Segmentation by End-user:

Wafer Foundry

IDMs

LED Manufacturers

Advanced Packaging Plants

Global High-Purity Ammonia for Semiconductors Market, Segmentation by Application:

IC Manufacturing

LED Epitaxy and MOCVD

Power Semiconductors (SiC/GaN)

Solar Cells

Compound Semiconductors (GaAs/InP)

Companies Profiled:

Merck

Air Products and Chemicals

Linde (Praxair)

Sumitomo Seika Chemical

Haining Indusair Electronics

Resonac (Showa Denko)

Air Liquide

Suzhou Jinhong Gas Co., Ltd.

Guangdong Huate Gas Co., Ltd.

Daesung Group

Dalian F.T.Z CREDIT Chemical Technology Development

Tangshan Sanyou Electronic Chemicals Co., Ltd.

Key Questions Answered:

1. How big is the global High-Purity Ammonia for Semiconductors market?
2. What is the demand of the global High-Purity Ammonia for Semiconductors market?
3. What is the year over year growth of the global High-Purity Ammonia for Semiconductors market?
4. What is the production and production value of the global High-Purity Ammonia for Semiconductors market?
5. Who are the key producers in the global High-Purity Ammonia for Semiconductors market?
6. What are the growth factors driving the market demand?

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