

Global Amorphous Silica-Alumina (ASA) for Petrochemical Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Amorphous Silica-Alumina (ASA) for Petrochemical market size is expected to reach \$ 361 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

In 2025, sales of amorphous silica-alumina (ASA) catalysts for petrochemicals reached 4,308 tons, with an average price of US\$54,352 per ton.

Amorphous silica-alumina (ASA) is a vital synthetic material, a solid acid catalyst or support, crucial in petrochemicals for tasks like hydrocracking, known for its high surface area, tunable acidity, and mesoporous structure that avoids diffusion limits of zeolites, allowing processing of larger molecules by adjusting its Si/Al ratio and synthesis. It features both Brønsted (proton-donating) and Lewis (electron-accepting) acid sites, with its exact structure and acid strength being finely controlled for applications needing balanced activity, like producing diesel and kerosene from heavy oils.

Petrochemical-grade ASA uses silica sol (or water glass) and sodium aluminate/aluminum sulfate as co-precipitation precursors. The process involves acid-alkali co-flow precipitation, aging, filtration, drying, and calcination at 600 °C before shaping. In the raw material cost, water glass accounts for 35–40%, aluminum sulfate for 20–25%, acid (H₂SO₄) and alkali (NaOH) for 10%, energy consumption (drying + calcination) for 15%, and labor and environmental treatment costs for 10–15%.

This report studies the global Amorphous Silica-Alumina (ASA) for Petrochemical production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Amorphous Silica-Alumina (ASA) for Petrochemical 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 Amorphous Silica-Alumina (ASA) for Petrochemical that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Amorphous Silica-Alumina (ASA) for Petrochemical total production and demand, 2021-2032, (Tons)

Global Amorphous Silica-Alumina (ASA) for Petrochemical total production value, 2021-2032, (USD Million)

Global Amorphous Silica-Alumina (ASA) for Petrochemical production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Amorphous Silica-Alumina (ASA) for Petrochemical consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Amorphous Silica-Alumina (ASA) for Petrochemical domestic production, consumption, key domestic manufacturers and share

Global Amorphous Silica-Alumina (ASA) for Petrochemical production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Amorphous Silica-Alumina (ASA) for Petrochemical production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Amorphous Silica-Alumina (ASA) for Petrochemical production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Amorphous Silica-Alumina (ASA) for Petrochemical 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 Sasol, W.R.

Grace, BASF, Albemarle, JGC C and C, 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 Amorphous Silica-Alumina (ASA) for Petrochemical 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 Amorphous Silica-Alumina (ASA) for Petrochemical Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Amorphous Silica-Alumina (ASA) for Petrochemical Market, Segmentation by Type:

Co-precipitation

So-gel Method

Others

Global Amorphous Silica-Alumina (ASA) for Petrochemical Market, Segmentation by Si/Al Atomic Ratio:

Low Aluminum Type: Si/Al > 10

Medium Aluminum Type: Si/Al 5–10

High Aluminum Type: Si/Al

Global Amorphous Silica-Alumina (ASA) for Petrochemical Market, Segmentation by Pore Structure:

Mesoporous: ASA (2–50 nm)

Macroporous: ASA > 50 nm

Microporous: ASA

Global Amorphous Silica-Alumina (ASA) for Petrochemical Market, Segmentation by Application:

Diesel Hydrotreat

Lube Oils

Naphtha

Residue Upgrading

Others

Companies Profiled:

Sasol

W.R. Grace

BASF

Albemarle

JGC C and C

Key Questions Answered:

1. How big is the global Amorphous Silica-Alumina (ASA) for Petrochemical market?
2. What is the demand of the global Amorphous Silica-Alumina (ASA) for Petrochemical market?
3. What is the year over year growth of the global Amorphous Silica-Alumina (ASA) for Petrochemical market?
4. What is the production and production value of the global Amorphous Silica-Alumina (ASA) for Petrochemical market?
5. Who are the key producers in the global Amorphous Silica-Alumina (ASA) for Petrochemical market?
6. What are the growth factors driving the market demand?

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