

# Global Amorphous Silica-Alumina (ASA) Catalyst Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Amorphous Silica-Alumina (ASA) Catalyst market size was valued at US\$ 259 million in 2025 and is forecast to a readjusted size of US\$ 393 million by 2032 with a CAGR of 6.1% during review period.

In 2025, sales of amorphous silica-alumina (ASA) catalysts reached 4,539 tons, with an average price of US\$55,352 per ton.

Amorphous silica-alumina (ASA) catalysts are solid acid catalysts composed of SiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> uniformly composited at the molecular scale, maintaining an amorphous structure (no crystalline peaks in XRD). Their surface simultaneously possesses Bronsted acid sites (BAS) and Lewis acid sites (LAS), and the acid density and strength can be controlled by parameters such as the Si/Al ratio, calcination temperature, and hydrothermal treatment. Due to their large pore size and high specific surface area (200–600 m<sup>2</sup>/g), they are widely used in heavy oil catalytic cracking (FCC), olefin oligomerization, biomass aromatization, alkyl transfer, and hydrocracking reactions, acting as an 'acid support' or 'bifunctional acid.'

Industrial-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 terms of raw material costs, water glass accounts for 35–40%, aluminum sulfate for 20–25%, acid (H<sub>2</sub>SO<sub>4</sub>) and alkali (NaOH) for 10%, energy consumption (drying + calcination) for 15%, and labor and environmental treatment for 10–15%.

This report is a detailed and comprehensive analysis for global Amorphous Silica-Alumina (ASA) Catalyst market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Amorphous Silica-Alumina (ASA) Catalyst market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Amorphous Silica-Alumina (ASA) Catalyst market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Amorphous Silica-Alumina (ASA) Catalyst market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Amorphous Silica-Alumina (ASA) Catalyst market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Amorphous Silica-Alumina (ASA) Catalyst
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Amorphous Silica-Alumina (ASA) Catalyst market based on the following parameters - company overview, sales quantity, revenue, 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.

## **Market Segmentation**

Amorphous Silica-Alumina (ASA) Catalyst market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### **Market segment by Type**

Co-precipitation

So-gel Method

Others

### **Market segment by Si/Al Atomic Ratio**

Low Aluminum Type: Si/Al > 10

Medium Aluminum Type: Si/Al 5–10

High Aluminum Type: Si/Al

### **Market segment by Pore Structure**

Mesoporous: ASA (2–50 nm)

Macroporous: ASA > 50 nm

Microporous: ASA

### **Market segment by Application**

Diesel Hydrotreat

Lube Oils

Naphtha

Residue Upgrading

Others

Major players covered

Sasol

W.R. Grace

BASF

Albemarle

JGC C and C

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Amorphous Silica-Alumina (ASA) Catalyst product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Amorphous Silica-Alumina (ASA) Catalyst, with price, sales quantity, revenue, and global market share of Amorphous Silica-Alumina (ASA) Catalyst from 2021 to 2026.

Chapter 3, the Amorphous Silica-Alumina (ASA) Catalyst competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Amorphous Silica-Alumina (ASA) Catalyst breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Amorphous Silica-Alumina (ASA) Catalyst market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Amorphous Silica-Alumina (ASA) Catalyst.

Chapter 14 and 15, to describe Amorphous Silica-Alumina (ASA) Catalyst sales channel, distributors, customers, research findings and conclusion.

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