

# Poly Aluminium Chloride (PAC) Market By Form (Solid, Liquid) , By End-Use Industry (Oil and gas, Water Treatment, Cosmetic and Personal Care, Paper and Pulp, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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## Abstracts

### Poly Aluminium Chloride (PAC) Market

The poly aluminium chloride (PAC) market was valued at \$1.4 billion in 2023 and is projected to reach \$2.6 billion by 2033, growing at a CAGR of 6.2% from 2024 to 2033.

Poly aluminium chloride (PAC) is an inorganic polymeric substance, primarily used as a coagulant in water treatment processes. The acidic solution of PAC is prepared using aluminum, hydrogen, chlorine, and oxygen. The ability to remove organic matter and suspended solids from water is a key characteristic of PAC. PAC is significantly being used for environmental protection activities due to its potential to lower the levels of some heavy metals. The stability of PAC makes it suitable for storage for an extended time.

With increasing urbanization and industrialization, the requirement for wastewater treatment is increasing substantially, thereby driving the growth of the poly aluminium chloride (PAC) market. In addition, the versatile properties of PAC are rising its demand in different industries including textile processing, paper manufacturing, and food & beverage industries. Owing to diverse applications of PAC, the trend of synthesizing the chemical from waste aluminum household foils, utilizing petroleum wastewater is expected to acquire a notable traction. This synthesis is poised to be a highly cost-effective and sustainable method of PAC manufacturing. The method is further

projected to aid in resource conservation by eliminating the need to extract aluminum from bauxite.

However, the health and environmental hazards associated with the synthesis and handling of PAC hamper the development of the market. PAC is known to cause skin burns & eye damage and is harmful for marine life. Moreover, the industries using PAC are mandated to comply with the stringent health and safety regulations, which delays the market growth. On the contrary, the allocation of funds by governments in different countries is anticipated to present lucrative opportunities for market expansion. For instance, on September 2022, the Municipal Corporation of Greater Mumbai in India offered Suez—a French utility company—a contract of 700 million euros to design, build, and operate a wastewater treatment facility with a capacity of 500 million liters per day.

## Segment Review

The poly aluminium chloride (PAC) market is segmented into form, end-use industry, and region. On the basis of form, the market is bifurcated into solid and liquid. Depending on end-use industry, it is classified into oil & gas, water treatment, cosmetic & personal care, paper & pulp, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of form, the liquid segment held the highest market share in 2023.

Depending on end-use industry, the water treatment segment dominated the market in 2023.

Region wise, Asia-Pacific was the highest revenue generator in 2023.

## Competition Analysis

The leading players operating in the global poly aluminium chloride (PAC) market include GEO Specialty Chemicals, Inc, Feralco AB Ltd, Airedale Chemical Company Ltd., USALCO, Aditya Birla Chemicals (India) Limited, Kemira Oyg, Coyne Chemicals, Central Glass Co. Ltd., Summit Chemical Specialty Products, LLC., and Gujarat Alkalies and Chemicals. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships, to strengthen

their foothold in the competitive market.

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Manufacturing Capacity

Consumer Buying Behavior Analysis

End user preferences and pain points

Investment Opportunities

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Additional country or region analysis- market size and forecast

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## Key Market Segments

### By Form

Solid

Liquid

### By End-Use Industry

Oil and gas

Water Treatment

Cosmetic and Personal Care

Paper and Pulp

Others

### By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

GEO Specialty Chemicals, Inc

Feralc%li%AB Ltd

Airedale Chemical Company Ltd.

USALCO

Aditya Birla Chemicals (India) Limited

Kemira Oyg

Coyne Chemicals

Central Glass Co. Ltd.

Summit Chemical Specialty Products, LLC.

Gujarat Alkalies and Chemicals

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