Global Poly Aluminum Chloride Market: Information by Form (Solid and Liquid.), End-Use Industry (Water Treatment, Paper Industry, Cosmetics and Personal Care, Oil & Gas and others) and Region (Asia-Pacific, North America, Europe, Latin America and Middle East & Africa) - Forecast till 2025.

The Poly Aluminum Chloride Market is projected to grow at a CAGR of 5.3% during the forecast period.

Poly Aluminum Chloride (PAC) is an inorganic polymer, commercially manufactured by reacting aluminum with hydrochloric acid. Most commonly used industrial practice is to prepare a solution of aluminum chlorohydrate and react with hydrochloric acid. The effectiveness of the poly aluminum chloride in flocculation and coagulation coupled with high antibactericide effects has widened its scope in water treatment industries.

Market Dynamics

The global market is expected to be driven by increased demand in end-use industries such as water treatment and paper industries. Owing to properties such as high charge and low sludge retention, poly aluminum chloride is widely used in treatment of drinking water, sewage and industrial effluents. Poly aluminum chloride (PAC) is extensively used as a coagulant in paper and pulp industries to reduce the pH, color and COD of the paper mill effluent. Additionally, it also finds application in cosmetic & personal care industries as an active ingredient in deodorants and antiperspirants.

Owing to its properties such as low residual aluminum content and turbidity, poly aluminum chloride is as a substitute to alum in various water treatment industries and is anticipated to offer lucrative opportunities during the forecast period.

Furthermore, due to destabilizing oil-water emulsions properties and phase separation efficiency PAC is widely used in the oil & gas industries and thus is expected to add value to the global market.

However, high price poly aluminum chloride owing to its complex extraction process, is expected to undermine market prospects to some extent during the forecast period.

Global Poly Aluminum Chloride Market Revenue, by Application, 2018 (USD Million)
Sources: MRFR Analysis

Segmentation

Based on form, the poly aluminum chloride market has been segmented into soil and liquid. The liquid PAC segment accounted for largest market share of 86.52% in 2018.

By end-use industry, the market has been classified into water treatment, paper industry, cosmetics and personal care, oil & gas, and others. The water treatment industry dominated the market share and was valued -USD 408.9 million in 2018.

Regional Analysis

The market in Asia-Pacific accounted the largest market share in 2018 and was valued USD 335 million tonnes. The regional market is projected to register a CAGR of ~6% during the forecast period owing to the rapid industrialization and governmental policies in the region. China is the leading country in the region followed by India and South Korea owing to the development of water treatment industries. Additionally, the increasing environmental concerns to avoid lethal diseases coupled with the adoption of various water & wastewater treatment processes will further propel the demand of poly aluminum chloride in water treatment industry. For instance, in 2019 Toray Industries invested USD 89.7 million for building a new plant to make water treatment membranes in China, in order to eradicate water scarcity problems. Furthermore, the growth of cosmetic industry propels the market demand in the region. This can be attributed to the improving socio-economic
factors and increased spending on cosmetics and personal care. Thus, creating lucrative opportunities for poly aluminum chloride producers in the region.

European market is expected to showcase a significant growth during the forecast period owing to the usage of poly aluminum chloride in expanding paper & pulp industry in the region. For instance, Hamburger Rieger invested USD 456.2 million in 2018 to set up a new paper mill machine in Spremberg, having a capacity of 500,000 tons. Additionally, rising environmental concerns pertaining to toxic industrial effluents can be attributed towards the demand of poly aluminum chloride market in the region.

North American market is also anticipated to showcase a healthy growth during the forecast period owing to the high demand for water treatment chemicals in the region. Canada is likely to grow with a significant CAGR of ~4.12% during the foreseen period owing to favorable applications in oil & gas sector and availability of abundant water for shale gas extraction.

The Latin American and Middle East & African markets are expected to showcase a substantial growth during the forecast period. The Middle East region accounts for over 30% of global crude oil production and has over 40% of proven oil reserves thus creating ample of opportunities for the players operating in poly aluminum chloride market.

Key Players

Kemira Oyj (Finland), Gongyi Filter Industry Co., Ltd. (China), GEO Speciality Chemicals (US), Feralco AB (Europe), Airedale Chemical (UK), Kanoria Chemicals & Industries Limited (KCI) (India), Synergy Multichem Pvt. Ltd. (India), USALCO (USA), Gujarat Alkalies and Chemical Ltd. (India), Grasim Industries Ltd. (India).

Market Segmentation

Global Poly Aluminum Chloride Market, by Form

- Liquid
- Solid

Global Poly Aluminum Chloride Market, by End-Use Industry

- Water treatment
- Paper industry
- Cosmetics and Personal care
- Oil & gas
- Others

Global Poly Aluminum Chloride Market, by Region

- North America
  - US
  - Canada
- Europe
  - Germany
  - UK
  - France
  - Spain
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Rest of Asia-Pacific
- Latin America
  - Brazil
  - Mexico
  - Argentina
  - Rest of Latin America
- Middle East & Africa
  - Latin America

Intended Audience
- Poly aluminum chloride manufacturers
- Traders and distributors of Poly aluminum chloride
- Water treatment industries
- Pulp and paper industries
- Oil and gas industries
- Raw material suppliers
- Cosmetic industry

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