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Acrylamide - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Acrylamide Market size is estimated at 3.5 Million tons in 2024, and is expected to reach 4.43 Million tons by 2029, growing at a CAGR of 4.81% during the forecast period (2024-2029).

The COVID-19 pandemic impacted the market negatively in 2020. Owing to the pandemic, several countries worldwide witnessed lockdowns to help curb the spread of the virus. This completely disrupted the supply and demand chain, which negatively affected the market. The market later recovered and began growing at a significant rate.

Key Highlights

The market is expected to grow in the short term because of the growing demand for enhanced oil recovery (EOR) processes, which use a lot of polyacrylamides. In the long run, the market may grow because of strict European water regulations, which use a lot of acrylamide in water treatment.

However, acrylamide is obtained through interactions with heated meals and cigarette smoke. The unfavorable health impacts of this exposure are projected to be a significant hurdle for the worldwide acrylamide industry.

Growing investments in water treatment in countries like China are expected to create immense opportunities for market growth.

Asia-Pacific accounted for a significant market share, followed by North America and Europe.

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Acrylamide Market Trends

Water Treatment Application to Dominate the Market

Acrylamide is a linear polymer made up of monomer units with amide groups that stick to particles on the surface. The extensive polymer chain connects these particles. This process is called flocculation and is widely used in wastewater treatment methods.

When aqueous acrylamide or polyacrylamide (PAM) solutions are mixed with sewage, they form larger flocs, which can improve sedimentation rates in clarifiers, floatation rates in dissolved air flotation (DAF) systems, and water removal in sludge thickening equipment. Polyacrylamide is used a lot in industries like treating sewage, making pulp and paper, chemicals, petrochemicals, textiles, oil sands, and mining.

The increased industrial demand for water has been a primary driver of the water treatment industry's strong growth. As water is utilized in huge quantities in numerous industries, such as power, steel, mining and metallurgy, petrochemicals, oil and gas, food and beverage, and textiles and dyes, governments across the world are implementing regulations related to wastewater treatment in these industries before releasing the water back into the environment.

In sewage treatment, non-ionic polyacrylamide is preferred over its alternatives if the sewage system is acidic in nature. Furthermore, the inorganic flocculant poly-aluminum or aluminum sulfate provides better performance in the water treatment process.

Cationic polyacrylamide is highly soluble in water and has an excellent flocculation effect. It is used in a variety of applications, including urban sewage treatment, paper making, metallurgical and petrochemical processing, food processing, dyeing, miner dressing, and industrial wastewater treatment.

The Northeast Water Purification Plant (NEWPP) Expansion Phase 2 in Texas, United States; the Bull Run Filtration Project in Oregon, United States; the Reconstruction Project of Linville Water Treatment Plant in Southeast Queensland, Australia; etc., are some of the upcoming projects that may impact the demand for polymer.

The Northeast Water Purification Plant (NEWPP) Expansion Project of the City of Houston is a design-build project that will increase the capacity of the existing water plant by 400 million gallons per day (MGD) by 2025. The project will enable the city and regional water agencies to satisfy predicted demand, according to Houston Public

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Media.

Hence, with such projects expected to come online, the demand for acrylamide is likely to increase for water treatment applications during the forecast period.

Asia-Pacific Region to Dominate the Market

Asia-Pacific is predicted to increase at a modest rate throughout the projection period. Increasing disposable income in emerging nations is driving demand for convenience items, helping the growth of the worldwide acrylamide market. China has the biggest market share and will be the top acrylamide user during the projection period due to fast-growing development.

For instance, in China, between 2021 and 2025, the cumulative number of development and exploration wells drilled is expected to reach 118,000 because of the country's growing demand for oil and gas.

As per the National Bureau of Statistics of China, the country spent approximately CNY 3.77 billion (USD 524 million) in 2022 to treat wastewater pollution caused by industrial production. Moreover, by 2025, the industrial wastewater market in China is expected to reach USD 19.4 billion. The country is working on its plans to renovate or build about 80,000 km of sewage collection pipeline networks by 2025.

In early 2022, China approved new wastewater reuse guidelines, requiring 25% of sewage to be treated to reuse standards by 2025. This reflects the country's aim to shift away from capacity expansion and focus more on treated effluent quality. As part of the project, China aims to construct and refurbish 80,000 km of wastewater collection pipes over the next five years.

As there is not enough enhanced oil recovery and fracking in the country as in other places, acrylamide is not used as much in the oil and gas industry compared to other areas. On the other hand, Chinese energy giants are making progress by getting natural gas out of shale rock formations.

The factors listed above are projected to increase the demand in the Asia-Pacific acrylamide market in the future.

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Acrylamide Industry Overview

The acrylamide market is consolidated, with a few players occupying the majority of the market share. Major companies (not in any particular order) operating in the market are SNF Group, CNPC, BASF SE, Mitsui Chemical Inc., Beijing Hengju Chemical Group Corporation, and Ashland.

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