

Global Ammonium Bisulfite (ABS) Market 2023

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Abstracts

Description

Ammonium bisulfite holds widespread industrial applicability as a versatile chemical reagent due to its reductive and sulfonating properties. As the neutralized product formed through partial acid-base reaction between ammonia and sulfuric acid, it exists as a white crystalline solid with the chemical formula $(\text{NH}_4)\text{HSO}_4$.

Due in large part to its oxygen scavenging effects, one of the primary uses of ammonium bisulfite involves wastewater treatment to eliminate dissolved oxygen present in pipes and effluent streams. This prevents corrosion of infrastructure while enabling safer discharge. Similarly, its reducing capabilities render the compound an effective decolorizing agent across various manufacturing industries.

Through chemical reduction of carbonyl and alcohol groups that impart color, ammonium bisulfite serves as a reductive bleaching agent in processes like mechanical paper pulping, textile bleaching for cotton and wool, and purification of kaolin clay minerals. Beyond bleaching, additional functions include preservation through antioxidant properties and as an ingredient in home hair waving formulations.

Global market data predicts continuing strong demand growth of over 6.1 percent annually through 2029. This reflects ammonium bisulfite's positioning as an essential process chemical supporting sectors such as leather, food and beverage, gas treatment, as well as textiles, pulp and general industrial production. Its applications range from sterilization and equipment sanitation to refined synthetic pathways requiring controlled sulfur dioxide alternates.

The report covers market size and growth, segmentation, competitive landscape, trends and strategies for global ammonium bisulfite market. It presents a quantitative analysis

of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

Market Segmentation

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the application, and geography.

Application: chemicals, oil and gas, papermaking, water treatment, others

Geography: North America, Asia-Pacific, Europe, North America, Middle East and Africa (MEA), South America

The global ammonium bisulfite market can be segmented based on application area, with oil and gas representing a highly consequential sector. Within petroleum drilling workflows specifically, ammonium bisulfite finds indispensable use in deoxygenating drilling fluids and slurries to prevent downhole tubular erosion.

By virtue of this compound's strongly reducing and soluble nature, it readily combines with dissolved oxygen through redox reactions within liquid drilling media. This strategic application protects expensive subsurface casing and production equipment by eliminating residual oxygen at metallic interfaces where corrosion could initiate. Recent data indicates approximately half of worldwide ammonium bisulfite consumption presently serves the international petroleum drilling industry.

Comparatively lower material costs coupled with higher efficiency of oxygen scavenging per unit volume have cemented ammonium bisulfite as the preferred deoxidizing agent over alternatives. Proper oxygen removal protects substantial capital investments required to access reserves distributed across increasingly extreme drilling environments. As petro-extraction activity continues global expansion, demand for reliable downhole mediation compounds like ammonium bisulfite is projected to rise proportionately.

Beyond core oilfield applications, additional consumption sector leadership resides in pulp and paper manufacturing through bleaching and decolorizing wood fibers. Wastewater treatments removing excess chlorine also account for substantial volumes. Its multidisciplinary process roles support diverse industries from polymers and metalworking to food processing and chemical synthesis.

Ammonium bisulfite market is further segmented by geography: North America, Asia-Pacific, Europe, North America, Middle East and Africa (MEA), South America. Asia Pacific currently commands the largest regional share. Powerhouse emerging markets like China and India experiencing rapid industrialization particularly drive regional demand.

Major Companies and Competitive Landscape

The market research report covers the analysis of key stake holders of the global ammonium bisulfite market. Some of the leading players profiled in the report include Dimmitt Sulfur Products Ltd., Esseco S.r.l, GTS Chemical Holdings plc (Shandong Tiantai Steel-plastic Co., Ltd.), Hydrite Chemical Company, Juan Messina S.A., Qidong A&P Pharmaceutical Co., Ltd., Shandong Xinmiao Chemical Co., Ltd., Shanghai Huayi Group Shangliu Chemical Co., Ltd., Tessenderlo Kerley, Inc. (Moleko), Zhejiang Juhua Co., Ltd., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

Scope of the Report

To analyze and forecast the market size of the global ammonium bisulfite market.

To classify and forecast the global ammonium bisulfite market based on application, geography.

To identify drivers and challenges for the global ammonium bisulfite market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global ammonium bisulfite market.

To identify and analyze the profile of leading players operating in the global ammonium bisulfite market.

Why Choose This Report

Gain a reliable outlook of the global ammonium bisulfite market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

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