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Global Lignosulfonates Market 2023

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Abstracts

Description

Lignin represents one of Earth's most copious natural polymers, found chiefly within vascular plant cell walls providing structure and protection. Throughout pulping processes transforming wood biomass into paper and packaging materials, lignin is largely separated as a byproduct rather than deliberately extracted. Some lignin fractions undergo additional processing into lignosulfonates through sulfite digestion, conferring these anionic polymers with benefits enabling diverse industrial applications.

Low production costs combined with inherent environmental compatibility have supported lignosulfonates gaining popularity across sectors such as agriculture, construction, oil recovery, mining and more. Within animal feed supplements specifically, surging global demand for proteins points to continued market participation, especially developing nations experiencing extensive meat consumption growth. Simultaneously, as the built environment undergoes constant renewal and expansion worldwide, lignosulfonates find valuable functionalities as concrete plasticizers and admixtures upholding structural integrity.

Recent market forecasts reflect these trends, anticipating a compound annual growth rate nearing 3.5% will see the industry valued over $153.5 million higher by 2029. While traditional uses stabilizing soils and suppressing airborne particulates remain important, innovative applications under research could further catalyze lignosulfonates incorporation. For instance, emerging processes investigate upgrading lignin streams into sustainable polymer precursors and green fuel additives leveraging the monomer's carbon-rich composition.

Market Segmentation

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

Source: wood, straw

Product: ammonium lignosulfonate, calcium lignosulfonate, magnesium lignosulfonate, sodium lignosulfonate, others

Application: agriculture, animal feed, building and construction, chemical processing, dust control, metallurgy, mining, oil and gas, others

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

Based on application, the lignosulfonates market is segmented into: agriculture, animal feed, building and construction, chemical processing, dust control, metallurgy, mining, oil and gas, others. The building and construction segment held the largest share of the global lignosulfonates market in 2022 and is anticipated to hold its share during the forecast period.

Within the building and construction sector, lignosulfonates find extensive application contributing valuable properties to critical building materials. As significant water-reducing and plasticizing agents incorporated into concrete mixes, lignosulfonate formulations can decrease overall material costs by 10-15% through partially substituting traditional components like cement.

Dispersion capabilities impart key benefits such as lowered slump loss, limiting demands on expensive superplasticizers. Improved cohesiveness and workability at reduced water content in turn elevate strength and density while extending setting times. Compared to untreated concrete, specimens containing optimized lignosulfonate dosages exhibit hardness increases over 20% alongside frost resistance amplified three to four-fold.

Similar admixture roles apply within associated dry construction systems and fiberboards where hygroscopicity aids processability. Lignosulfonates may also impart thermal insulating qualities to finished plates and panels. Their widespread compatibility profile supports broad structural applications from load-bearing walls to flooring systems.

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Within cement production itself, lignosulfonate treated slurries demonstrate enhanced pumpability at equivalent water contents, boosting kiln throughput and reducing energy intensities. Interactions with cement particles control fluid rheology, preventing segregation yet maintaining workabilities.

Ongoing research further probes value-adding functionalizations like bio-dispersants for contaminated land remediation. Sustainable lignosulfonate derivatives show promise reformulating hazardous waste sites into developable brownfields.

The Asia Pacific region shows the greatest growth potential in the global market, driven by extensive manufacturing and end-use integration throughout diverse economies. China serves as the foremost global lignosulfonates hub, leveraging strategic feedstock resources and optimized pulping infrastructure to sustain outpacing regional and international production. Vast surpluses supply swelling domestic needs within construction and concrete while maintaining export strength to international players. Meanwhile, robust economic expansion throughout Southeast Asian nations and India has amplified regional demand. Megacities undergoing rapid built environment development rely heavily on proven lignosulfonate concrete technologies to enable ambitious infrastructure agendas.

Major Companies and Competitive Landscape

The report has also analyzed the competitive landscape of the global lignosulfonates market with some of the key players being Aditya Birla Group (Domsj? Fabriker), Borregaard AS, Burgo Group S.p.A., Changzhou Shanfeng Chemical Industry Co., Ltd., Ingevity Corporation, Jinzhou Four Special Additives, Jinzhou Jinri Paper Company Limited, JSC Syassky PPM, Karjala Pulp LLC, Lenzing AG, Mudanjiang Honglin Chemical Co. Ltd., Nippon Paper Industries Co. Ltd., Rayonier Advanced Materials Inc., Sappi Ltd., Shandong Weili, Shenyang Xingzhenghe Chemical Co., Ltd., Tembec Inc., The Dallas Group Of America Inc., Tianjin Yeats Additive Co., Ltd., Vyborg Forestry Development Corporation (VFDC), Xinyi Feihuang Chemical, Yanbian Shixian Bailu Paper Making 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 lignosulfonates market.

To classify and forecast the global lignosulfonates market based on source, product,

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application, region.

To identify drivers and challenges for the global lignosulfonates market.

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

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

Why Choose This Report

Gain a reliable outlook of the global lignosulfonates 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.

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Contents

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PART 8. GLOBAL LIGNOSULFONATES MARKET BY REGION

PART 9. COMPANY PROFILES

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