

Global Lignin Market 2023

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Abstracts

Description

Lignin is a complex organic polymer derived from wood and its byproducts, and it is manufactured through traditional processes involving the blending of specific chemicals to extract lignin, cellulose, and sweet liquor from wood and related materials. This intricate process encompasses biomass pretreatment from various plant sources, including hardwood, softwood, sawdust, low-grade wood chips, and even hemp. Extracting lignin from black liquor, a byproduct of the pulp production process, is considered one of the most convenient options, as it ensures that the capacity of the boiler does not impede pulp production.

The global lignin market is poised for significant growth, with a projected increase of USD 166.8 million by 2029, as indicated by the latest market study results. This growth is anticipated to be driven by a compound annual growth rate (CAGR) of 3.4 percent during the forecast period.

One of the key factors expected to fuel the expansion of the lignin market is the rising trend of utilizing lignin as a fuel source for burning in various applications, including its use as dispersants, binders, and adhesives. This trend is anticipated to significantly augment the market growth in the forthcoming years. Moreover, on a macro-level, the increasing construction expenditure and the rising demand for automobiles, electronics, and equipment manufacturing are expected to support the demand for lignin.

The construction industry is a major consumer of lignin, utilizing it in a variety of applications such as concrete admixtures, where lignin acts as a water reducer, improving the workability and strength of concrete. Additionally, lignin is used in the production of asphalt emulsions, where it serves as a stabilizing agent, contributing to the durability and performance of road surfaces. As global construction expenditure

continues to rise, particularly in emerging economies, the demand for lignin in construction-related applications is expected to experience a notable upsurge.

Market Segmentation

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

Product: lignosulfonates, kraft lignin, others

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

Process: kraft pulping, sulfite pulping

Region: Asia-Pacific, Europe, North America, Rest of the World (RoW)

The global lignin market can be categorized by product type, including lignosulfonates, kraft lignin, and other variants. Lignosulfonates, the most widely used form of lignin, are primarily employed as concrete admixtures, serving as dispersants and binders across a diverse range of industries such as construction, mining, agriculture, and others.

In 2022, lignosulfonates emerged as the dominant product segment in the market and are projected to maintain their prominence with a steady compound annual growth rate (CAGR) of 4.4% throughout the forecast period. The increased utilization of concrete mixtures in countries like China, India, and the United States, driven by advancements in the construction sector, is expected to propel the demand for lignosulfonates, thereby bolstering the growth of this product segment.

Geographically, the lignin market can be segmented into Asia-Pacific, Europe, North America, and the Rest of the World (RoW). Europe held the largest market share, accounting for 44.8% in 2022. The European market is anticipated to grow at a CAGR of 3.4%, primarily due to the robust presence of the pulp and paper industry, a major producer of lignin. As a byproduct of the pulp and paper industry, the substantial availability of lignin in Europe renders it a cost-effective option for various applications.

Europe's leading position in the lignin market is underpinned by the strong presence of the pulp and paper industry, which serves as a major source of lignin production. The abundance of lignin as a byproduct of the pulp and paper industry renders it a cost-

effective and sustainable option for various applications, contributing to the region's significant market share. Additionally, the favorable regulatory environment in Europe, supporting the utilization of lignin in diverse commercial applications, is expected to further propel market growth in the region.

Conversely, the Asia-Pacific region is poised for rapid growth, driven by the burgeoning industrialization and the surging demand for electronics and automobiles. The region's expanding industrial landscape, coupled with the increasing need for sustainable and high-performance materials, is expected to drive the demand for lignin across various applications, positioning Asia-Pacific as a key growth engine for the global lignin market.

Major Companies and Competitive Landscape

The report has also analyzed the competitive landscape of the global lignin market with some of the key players being Aditya Birla Group (Domsj? Fabriker), Borregaard LignoTech AB, Burgu Group S.p.A., GreenValue SA, Hubei Aging Chemical Co., Ltd., Ingevity Corporation, Jinzhou Jinri Paper Company Limited, Karjala Pulp LLC, Lenzing AG, Nippon Paper Industries Co., Ltd., Rayonier Advanced Materials Inc., Sappi Ltd., Shenyang Xingzhenghe Chemical Co., Ltd., Stora Enso Oyj, The Dallas Group Of America Inc., Tianjin Yeats Additive Co., Ltd., UPM-Kymmene Corporation, Vyborg Forestry Development Corporation (VFDC), Wuhan East China Chemical Co., Ltd., Xinyi Feihuang Chemical Co., Ltd., 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 lignin market.

To classify and forecast the global lignin market based on product, application, process, region.

To identify drivers and challenges for the global lignin market.

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

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

Why Choose This Report

Gain a reliable outlook of the global lignin 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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