

# Asia Pacific Lignin Market Size and Forecast (2021 - 2031)

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## Abstracts

The Asia Pacific Lignin Market is projected to grow significantly, with an expected market size of approximately US\$ 176,230.0 thousand by 2031, up from US\$ 109,363.8 thousand in 2023. This growth represents a compound annual growth rate (CAGR) of 6.1% from 2023 to 2031.

### Executive Summary and Market Overview

Lignin, a natural polymer derived from the byproducts of pulp and paper manufacturing, is gaining traction across various industries due to its versatility and eco-friendly properties. The increasing output of the pulp and paper sector directly correlates with the rise in lignin production. Lignin finds applications in numerous fields, including automotive, construction, coatings, plastics, activated carbon, and pharmaceuticals. Notably, liginosulfonate, a type of lignin, is widely utilized in the production of concrete, drywall, and various concrete additives. Additionally, lignin-based hydrogels are emerging as effective adsorbents in wastewater treatment, capable of removing metal cations and dyes from contaminated water.

According to a report from the International Energy Agency in 2022, China emerged as the leading paper producer globally in 2020. In 2021, the Chinese government outlined its commitment to fostering a circular economy through its 14th Five-Year Plan (2021-2025), aiming to recycle 66.1 million tons of waste paper by 2025. Furthermore, countries such as China, Thailand, the Philippines, and India are implementing initiatives to enhance wastewater treatment and promote circular economy practices through legislative measures.

### Market Segmentation Insights

The Asia Pacific Lignin Market can be segmented based on type, form, and application:

By Type: The market is divided into Liginosulfonates, Kraft Lignin, High Purity Lignin, Hydrolysis Lignin, and Others. In 2023, Liginosulfonates dominated the

market share.

**By Form:** The market is categorized into Solid and Liquid forms, with Solid lignin holding the largest market share in 2023.

**By Application:** The applications of lignin include Concrete Additives, Plastics and Polymers, Animal Feed, Water Treatment, Dyes and Pigments, Activated Carbon, Agriculture, Biofuels, and Others. Concrete Additives were the leading application segment in 2023.

### Market Outlook and Strategic Insights

Manufacturers in the lignin sector are actively investing in strategic initiatives such as product innovation, mergers and acquisitions, and business expansions to broaden their customer base and strengthen their market presence. The growing demand for lignin from various end-use industries is driven by increasing environmental awareness and sustainability concerns. For instance, in December 2021, Nippon Paper from Japan and Stora Enso from Finland entered a partnership aimed at innovating battery technology by utilizing lignin as a substitute for lithium-ion batteries. Similarly, in January 2023, Lignovations, an Austrian company, introduced LignoGuard, a multifunctional ingredient derived from lignin, which serves as a natural antioxidant and emulsion stabilizer, reducing the need for synthetic UV filters in skincare products.

Major players in the market are employing creative strategies such as acquisitions and expansions to enhance their production capabilities and meet rising consumer demands. For example, in January 2021, UPM Biochemicals expanded its lignin operations through a supply agreement with Domtar Paper Company, significantly increasing its annual kraft lignin supply.

### Country-Specific Insights

The Asia Pacific Lignin Market is further segmented by country, including Australia, China, India, Japan, South Korea, and the Rest of APAC, with China holding the largest market share in 2023. According to the International Trade Administration's 2023 report, China's wastewater treatment facilities managed to treat 98.1% of municipal wastewater and 28% of rural wastewater as of 2021. The Chinese government plans to construct an extensive sewage collection pipeline network, which will create substantial opportunities in wastewater treatment and related infrastructure development, particularly in smaller cities.

Lignin-based adsorbents are increasingly utilized in wastewater treatment for the removal of heavy metals and organic pollutants. Additionally, lignin is being integrated as a performance-enhancing additive in the production of thermoplastics. With

numerous major plastic and polymer manufacturers operating in China, such as Qingdao Xintongda and Suzhou Fansheng, the demand for lignin is expected to rise in tandem with advancements in the water treatment and construction sectors.

#### Key Players in the Market

Prominent companies in the Lignin Market include Tokyo Chemical Industry Co Ltd, Nippon Paper Industries Co Ltd, UPM-Kymmene Corp, Stora Enso Oyj, West Fraser Timber Co Ltd, and others. These companies are actively pursuing strategies such as expansion, product innovation, and mergers to enhance their market share and deliver innovative solutions to their customers.

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