

# **Europe Lignin Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Lignosulfonates, Kraft Lignin, High Purity Lignin, and Others), Form (Solid and Liquid), and Application (Concrete Additives, Plastics and Polymers, Bitumen, Water Treatment, Dyes and Pigments, Activated Carbon, Carbon Fiber, and Others)**

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## **Abstracts**

The Europe lignin market was valued at US\$ 1,76,255.83 thousand in 2022 and is expected to reach US\$ 2,36,625.58 thousand by 2028; it is estimated to grow at a CAGR of 5.0% from 2022 to 2028.

### **Strategic Development Initiatives by Key Market Players**

Lignin manufacturers are investing significantly in strategic development initiatives such as product innovation, mergers & acquisitions, and expansion of their businesses to attract a wide customer base and enhance their market position. Moreover, the demand for lignin is increasing among end-use industries due to rising environmental concerns and sustainability issues. For instance, in December 2021, Nippon Paper (Japan) and Stora Enso Oyj (Finland) signed a partnership agreement to use trees to revolutionize the battery industry. Their research focused on the replacement of lithium-ion and rare-metal batteries with lignin. Similarly, in January 2023, Lignovations, an Austria-based company that develops natural functional ingredients from lignin, developed LignoGuard, a multifunctional ingredient produced from woodchips, sawdust, and low-quality hardwood. The product aids in reducing synthetic UV filters and minerals required for photoprotection. It can be used as a natural antioxidant and emulsion stabilizer and applied to sensitive skin. Such product innovations help companies to

gain a competitive advantage in international markets.

Major manufacturers are adopting creative strategies such as acquisition, expansion, and production capacity scaleup to serve their customers better and satisfy their growing demands. Therefore, strategic initiatives by manufacturers are expected to fuel the growth of the lignin market during the forecast period.

## Europe Lignin Market Overview

The Europe lignin market growth is attributed to the growing implementation of climate plans by the European Union. In manufacturing batteries, graphitic carbon – is a strictly layered material that can have slow charging times. Replacing this fossil-based graphite with hard carbon from trees, such as lignin, brings both technical and environmental benefits. Hence, in batteries manufacturing, the use of wood lignin, is expected to create growth opportunities for the lignin market in the coming years. Moreover, European Union is implementing a memorandum to regulate new batteries, in order to adopt cost-effective and non-polluting biodegradable polymers. Also, due to the growing adoption of electric vehicles in the region, the demand for batteries across the region is increasing tremendously. The demand for batteries is projected to grow during the forecast period as battery manufacturers are procuring sustainable materials for the electrification of mobility. Sustainability has become a major goal of the automotive industry; as a result, car and battery manufacturers are focused on reducing carbon emissions in electric cars. Hence, bio-based carbon materials manufacturers are investing in the development of new products. For instance, on July 21, 2021, Stora Enso Oyj's pilot facility started operations for producing bio-based carbon materials from lignin. In 2019, the company announced an investment of US\$ 11.32 million in this facility.

## Europe Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)

### Europe Lignin Market Segmentation

The Europe lignin market is segmented based on type, form, application, and country. Based on type, the Europe lignin market is segmented into lignosulfonates, kraft lignin, high purity lignin, and others. The lignosulfonates segment held the largest market share in 2022.

Based on form, the Europe lignin market is bifurcated into solid and liquid. The solid segment held a larger market share in 2022.

Based on application, the Europe lignin market is segmented into concrete additives, plastics and polymers, bitumen, water treatment, dyes and pigments, activated carbon, carbon fiber, and others. The concrete additives segment held the largest market share in 2022.

Based on country, the Europe lignin market is segmented into Germany, the UK, France, Italy, Russia, and the Rest of Europe. The Rest of Europe dominated the Europe lignin market share in 2022.

Nippon Paper Industries Co Ltd; Borregaard ASA; Burgo Group SpA; Domsjo Fabriker AB; Sappi Ltd; Stora Enso Oyj; Suzano SA; The Dallas Group of America Inc; Tokyo Chemical Industry Co Ltd; and West Fraser Timber Co Ltd are the leading companies operating in the Europe lignin market.

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