

Asia Pacific 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 Asia Pacific lignin market was valued at US\$ 1,51,820.36 thousand in 2022 and is expected to reach US\$ 2,14,784.27 thousand by 2028; it is estimated to grow at a CAGR of 6.0% from 2022 to 2028

Growing Demand of Lignin from Several End-Use Industries

Lignin is widely used in many industrial applications owing to its aromatic structure, relatively high energy content, and sustainability. Hence, the demand for lignin and its use is increasing across various end-use industries such as construction, paper & pulp, agriculture, animal feed, water treatment, and biofuel. Lignin is utilized in the building materials and construction industry as a set retardant, water-reducing admixture, and grinding agent in cement production. Lignin is used as a cement replacement material. It strengthens concrete by increasing its compressive strength; thus, its usage decreases carbon dioxide emissions during cement production and reduces the risk of depletion of natural material used for concrete production. A major advantage of using lignin is making the concrete process sustainable. Thus, the increasing use of lignin in concrete admixtures is driving the demand for lignin. Less than 2% of lignin is used as a dispersant, surfactant, and wood adhesive, while the rest is consumed as a direct combustion fuel to supply internal energy in biomass processes. In addition, lignin is the



largest natural source of aromatics, which can potentially replace petroleum-based chemicals. Consumers are increasingly shifting toward eco-friendly products. Hence, the demand for bio-based, renewable, and circular solutions is increasing. For instance, Lineo, a high-purity kraft lignin material by Stora Enso Oyj, can replace fossil-based glue in plywood. In February 2023, Paged, a Polish plywood manufacturer, collaborated with Stora Enso Oyj to cater to customers' demands for sustainable and bio-based plywood. This partnership allowed Paged to reduce carbon emissions through its products.

Furthermore, increasing demand for sustainable products has prompted several manufacturers to produce bio-based products such as bio-based plastics, lignin-based resins, lignin-based binders, lignin-based composites, bio-asphalt, biofuel, and bio-coatings, among others. In 2019, Latvijas Finieris developed RIGA ECOlogical in collaboration with Stora Enso Oyj. RIGA ECOlogical is eco-friendly lignin gluing technology aimed at replacing fossil-based phenol utilized in plywood production. In addition, lignin is used as an animal feed additive and offers multiple functionalities for improved productivity in the animal nutrition & health industry. Purified Alcell lignin can exhibit prebiotic effects in chickens, favoring the growth of good bacteria and improving the morphological structures of the intestines, as measured by increased villi height and goblet cell number. These findings suggest that purified lignin can offer health benefits in monogastric animals and serve as a potential natural feed additive. Hence, animal feed manufacturers increasingly use lignin as a natural feed additive. Therefore, the growing demand of lignin from several end-use industries drives the Asia Pacific lignin market growth.

Asia Pacific Lignin Market Overview

Lignin is extracted from the wastewater of pulp and paper plants. Thus, the proliferation of -the paper and pulp industry contribute to a rise in lignin production. Lignin has a wide range of applications in industries such as automotive, construction, coatings, plastics and polymers, activated carbon, and pharmaceuticals. Moreover, lignosulfonate is extensively used to produce concrete, drywall, and concrete-based additives. In wastewater treatment processes, lignin-based hydrogels are used as pollutant adsorbents to eliminate metal cations and dyes.

According to a report published by the International Energy Agency in 2022, China was the world's largest paper producer in 2020. In 2021, the country announced its plans to prioritize building a circular economy under its 14th Five-Year Plan (2021–2025), by attaining the capability of utilizing 66.1 million tons of wastepaper by 2025. Moreover,



the governments of China, Thailand, the Philippines, and India have introduced programs and taken initiatives to support wastewater treatment projects and a circular economy via statutory or legislative provisions.

Asia Pacific Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)

Asia Pacific Lignin Market Segmentation

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

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

Based on application, the Asia Pacific 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 Asia Pacific lignin market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific 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; and Tokyo Chemical Industry Co Ltd are the leading companies operating in the Asia Pacific lignin market.



Contents

1. INTRODUCTION

- 1.1 Study Scope
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation
 - 1.3.1 Asia Pacific Lignin Market, by Type
 - 1.3.2 Asia Pacific Lignin Market, by Form
 - 1.3.3 Asia Pacific Lignin Market, by Application
 - 1.3.4 Asia Pacific Lignin Market, by Country

2. KEY TAKEAWAYS

3. RESEARCH METHODOLOGY

- 3.1 Scope of the Study
- 3.2 Research Methodology
 - 3.2.1 Data Collection:
 - 3.2.2 Primary Interviews:
 - 3.2.3 Hypothesis formulation:
 - 3.2.4 Macro-economic factor analysis:
 - 3.2.5 Developing base number:
 - 3.2.6 Data Triangulation:
 - 3.2.7 Country level data:

4. ASIA PACIFIC LIGNIN MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Threat of New Entrants:
 - 4.2.2 Bargaining Power of Suppliers:
 - 4.2.3 Bargaining Power of Buyers:
 - 4.2.4 Intensity of Competitive Rivalry:
 - 4.2.5 Threat of Substitutes:
- 4.3 Ecosystem Analysis
 - 4.3.1 Raw Materials
 - 4.3.2 Production Process
 - 4.3.3 End-Use Industries



4.4 Expert Opinion

5. ASIA PACIFIC LIGNIN MARKET – KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Growing Demand of Lignin from Several End-Use Industries
- 5.1.2 Government Regulations and Initiatives to Promote Sustainable and Bio-

Products

- 5.2 Market Restraints
 - 5.2.1 Availability of Substitutes for Lignin
- 5.3 Market Opportunities
 - 5.3.1 Adoption of Lignin for Carbon Fiber Production
- 5.4 Future Trends
 - 5.4.1 Strategic Development Initiatives by Key Market Players
- 5.5 Impact Analysis of Drivers and Restraints

6. LIGNIN – ASIA PACIFIC MARKET ANALYSIS

- 6.1 Asia Pacific Lignin Market -Volume and Forecast to 2028 (Tons)
- 6.2 Asia Pacific Lignin Market –Revenue and Forecast to 2028 (US\$ Thousand)

7. ASIA PACIFIC LIGNIN MARKET ANALYSIS - BY TYPE

- 7.1 Overview
- 7.2 Asia Pacific Lignin Market, By Type (2021 and 2028)
- 7.3 Lignosulfonates
 - 7.3.1 Overview
 - 7.3.2 Lignosulfonates: Lignin Market Volume and Forecast to 2028 (Tons)
 - 7.3.3 Lignosulfonates: Lignin Market Revenue and Forecast to 2028 (US\$

Thousand)

- 7.4 Kraft Lignin
 - 7.4.1 Overview
 - 7.4.2 Kraft Lignin: Lignin Market Volume and Forecast to 2028 (Tons)
 - 7.4.3 Kraft Lignin: Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)
- 7.5 High Purity Lignin
 - 7.5.1 Overview
 - 7.5.2 High Purity Lignin: Lignin Market Volume and Forecast to 2028 (Tons)
- 7.5.3 High Purity Lignin: Lignin Market Revenue and Forecast to 2028 (US\$

Thousand)



- 7.6 Others
 - 7.6.1 Overview
 - 7.6.2 Others: Lignin Market Volume and Forecast to 2028 (Tons)
 - 7.6.3 Others: Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)

8. ASIA PACIFIC LIGNIN MARKET ANALYSIS -BY FORM

- 8.1 Overview
- 8.2 Lignin Market, By Form (2021 and 2028)
- 8.3 Solid
 - 8.3.1 Overview
 - 8.3.2 Solid: Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)
- 8.4 Liquid
 - 8.4.1 Overview
 - 8.4.2 Liquid: Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)

9. ASIA PACIFIC LIGNIN MARKET ANALYSIS - BY APPLICATION

- 9.1 Overview
- 9.2 Lignin Market, By Application (2021 and 2028)
- 9.3 Concrete Additives
 - 9.3.1 Overview
- 9.3.2 Concrete Additives: Lignin Market Revenue and Forecast to 2028 (US\$

Thousand)

- 9.4 Plastics and Polymers
 - 9.4.1 Overview
- 9.4.2 Plastics and Polymers: Lignin Market Revenue and Forecast to 2028 (US\$

Thousand)

- 9.5 Bitumen
 - 9.5.1 Overview
 - 9.5.2 Bitumen: Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)
- 9.6 Water Treatment
 - 9.6.1 Overview
- 9.6.2 Water Treatment: Lignin Market Revenue and Forecast to 2028 (US\$

Thousand)

- 9.7 Dyes and Pigments
 - 9.7.1 Overview
- 9.7.2 Dyes and Pigments: Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)



- 9.8 Activated Carbon
 - 9.8.1 Overview
 - 9.8.2 Activated Carbon: Lignin Market Revenue and Forecast to 2028 (US\$

Thousand)

- 9.9 Carbon Fiber
 - 9.9.1 Overview
 - 9.9.2 Carbon Fiber: Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)
- 9.10 Others
 - 9.10.1 Overview
 - 9.10.2 Others: Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)

10. ASIA PACIFIC LIGNIN MARKET - BY COUNTRY ANALYSIS

- 10.1 Asia Pacific: Lignin Market
 - 10.1.1 Asia Pacific: Lignin Market, by Key Country
 - 10.1.1.1 Australia: Lignin Market Volume and Forecast to 2028 (Tons)
 - 10.1.1.2 Australia: Lignin Market –Revenue and Forecast to 2028 (US\$ Thousand)
 - 10.1.1.2.1 Australia: Lignin Market, by Type
 - 10.1.1.2.2 Australia: Lignin Market, by Type
 - 10.1.1.2.3 Australia: Lignin Market, by Form
 - 10.1.1.2.4 Australia: Lignin Market, by Application
 - 10.1.1.3 China: Lignin Market Volume and Forecast to 2028 (Tons)
 - 10.1.1.4 China: Lignin Market –Revenue and Forecast to 2028 (US\$ Thousand)
 - 10.1.1.4.1 China: Lignin Market, by Type
 - 10.1.1.4.2 China: Lignin Market, by Type
 - 10.1.1.4.3 China: Lignin Market, by Form
 - 10.1.1.4.4 China: Lignin Market, by Application
 - 10.1.1.5 India: Lignin Market Volume and Forecast to 2028 (Tons)
 - 10.1.1.6 India: Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)
 - 10.1.1.6.1 India: Lignin Market, by Type
 - 10.1.1.6.2 India: Lignin Market, by Type
 - 10.1.1.6.3 India: Lignin Market, by Form
 - 10.1.1.6.4 India: Lignin Market, by Application
 - 10.1.1.7 Japan: Lignin Market Volume and Forecast to 2028 (Tons)
 - 10.1.1.8 Japan: Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)
 - 10.1.1.8.1 Japan: Lignin Market, by Type
 - 10.1.1.8.2 Japan: Lignin Market, by Type
 - 10.1.1.8.3 Japan: Lignin Market, by Form
 - 10.1.1.8.4 Japan: Lignin Market, by Application



- 10.1.1.9 South Korea: Lignin Market Volume and Forecast to 2028 (Tons)
- 10.1.1.10 South Korea: Lignin Market -Revenue and Forecast to 2028 (US\$

Thousand)

- 10.1.1.10.1 South Korea: Lignin Market, by Type
- 10.1.1.10.2 South Korea: Lignin Market, by Type
- 10.1.1.10.3 South Korea: Lignin Market, by Form
- 10.1.1.10.4 South Korea: Lignin Market, by Application
- 10.1.1.11 Rest of Asia Pacific: Lignin Market Volume and Forecast to 2028 (Tons)
- 10.1.1.12 Rest of Asia Pacific: Lignin Market –Revenue and Forecast to 2028 (US\$

Thousand)

- 10.1.1.12.1 Rest of Asia Pacific: Lignin Market, by Type
- 10.1.1.12.2 Rest of Asia Pacific: Lignin Market, by Type
- 10.1.1.12.3 Rest of Asia Pacific: Lignin Market, by Form
- 10.1.1.12.4 Rest of Asia Pacific: Lignin Market, by Application

11. INDUSTRY LANDSCAPE

- 11.1 Overview
- 11.2 Market Initiative
- 11.3 Partnerships & Collaborations

12. COMPANY PROFILES

- 12.1 Nippon Paper Industries Co Ltd
 - 12.1.1 Key Facts
 - 12.1.2 Business Description
 - 12.1.3 Products and Services
 - 12.1.4 Financial Overview
 - 12.1.5 SWOT Analysis
- 12.1.6 Key Developments
- 12.2 Borregaard ASA
 - 12.2.1 Key Facts
 - 12.2.2 Business Description
 - 12.2.3 Products and Services
 - 12.2.4 Financial Overview
 - 12.2.5 SWOT Analysis
 - 12.2.6 Key Developments
- 12.3 Burgo Group SpA
- 12.3.1 Key Facts



- 12.3.2 Business Description
- 12.3.3 Products and Services
- 12.3.4 Financial Overview
- 12.3.5 SWOT Analysis
- 12.3.6 Key Developments
- 12.4 Domsjo Fabriker AB
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Developments
- 12.5 Sappi Ltd
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
- 12.5.6 Key Developments
- 12.6 Stora Enso Oyj
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 Suzano SA
- 12.7.1 Key Facts
- 12.7.2 Business Description
- 12.7.3 Products and Services
- 12.7.4 Financial Overview
- 12.7.5 SWOT Analysis
- 12.7.6 Key Developments
- 12.8 The Dallas Group of America Inc
 - 12.8.1 Key Facts
 - 12.8.2 Business Description
 - 12.8.3 Products and Services
 - 12.8.4 Financial Overview
 - 12.8.5 SWOT Analysis



- 12.8.6 Key Developments
- 12.9 Tokyo Chemical Industry Co Ltd
 - 12.9.1 Key Facts
 - 12.9.2 Business Description
 - 12.9.3 Products and Services
 - 12.9.4 Financial Overview
 - 12.9.5 SWOT Analysis
 - 12.9.6 Key Developments

13. APPENDIX

- 13.1 About The Insight Partners
- 13.2 Glossary of Terms



List Of Tables

LIST OF TABLES

- Table 1. Asia Pacific Lignin Market –Volume and Forecast to 2028 (Tons)
- Table 2. Asia Pacific Lignin Market –Revenue and Forecast to 2028 (US\$ Thousand)
- Table 3. Australia Lignin Market, by Type- Volume and Forecast to 2028 (Tons)
- Table 4. Australia Lignin Market, by Type– Revenue and Forecast to 2028 (US\$ Thousand)
- Table 5. Australia Lignin Market, by Form Revenue and Forecast to 2028 (US\$ Thousand)
- Table 6. Australia Lignin Market, by Application Revenue and Forecast to 2028 (US\$ Thousand)
- Table 7. China Lignin Market, by Type Volume and Forecast to 2028 (Tons)
- Table 8. China Lignin Market, by Type Revenue and Forecast to 2028 (US\$ Thousand)
- Table 9. China Lignin Market, by Form Revenue and Forecast to 2028 (US\$ Thousand)
- Table 10. China Lignin Market, by Application Revenue and Forecast to 2028 (US\$ Thousand)
- Table 11. India Lignin Market, by Type Volume and Forecast to 2028 (Tons)
- Table 12. India Lignin Market, by Type Revenue and Forecast to 2028 (US\$ Thousand)
- Table 13. India Lignin Market, by Form Revenue and Forecast to 2028 (US\$ Thousand)
- Table 14. India Lignin Market, by Application Revenue and Forecast to 2028 (US\$ Thousand)
- Table 15. Japan Lignin Market, by Type Volume and Forecast to 2028 (Tons)
- Table 16. Japan Lignin Market, by Type Revenue and Forecast to 2028 (US\$ Thousand)
- Table 17. Japan Lignin Market, by Form Revenue and Forecast to 2028 (US\$ Thousand)
- Table 18. Japan Lignin Market, by Application Revenue and Forecast to 2028 (US\$ Thousand)
- Table 19. South Korea Lignin Market, by Type Volume and Forecast to 2028 (Tons)
- Table 20. South Korea Lignin Market, by Type Revenue and Forecast to 2028 (US\$ Thousand)
- Table 21. South Korea Lignin Market, by Form Revenue and Forecast to 2028 (US\$ Thousand)



Table 22. South Korea Lignin Market, by Application – Revenue and Forecast to 2028 (US\$ Thousand)

Table 23. Rest of Asia Pacific Lignin Market, by Type – Volume and Forecast to 2028 (Tons)

Table 24. Rest of Asia Pacific Lignin Market, by Type – Revenue and Forecast to 2028 (US\$ Thousand)

Table 25. Rest of Asia Pacific Lignin Market, by Form – Revenue and Forecast to 2028 (US\$ Thousand)

Table 26. Rest of Asia Pacific Lignin Market, by Application – Revenue and Forecast to 2028 (US\$ Thousand)

Table 27. Glossary of Terms, Asia Pacific Lignin Market



List Of Figures

LIST OF FIGURES

- Figure 1. Asia Pacific Lignin Market Segmentation
- Figure 2. Asia Pacific Lignin Market Segmentation By Country
- Figure 3. Asia Pacific Lignin Market Overview
- Figure 4. Asia Pacific Lignin Market, By Form
- Figure 5. Asia Pacific Lignin Market, by Country
- Figure 6. Asia Pacific Porter's Five Forces Analysis: Lignin Market
- Figure 7. Ecosystem: Asia Pacific Lignin Market
- Figure 8. Asia Pacific Expert Opinion
- Figure 9. Asia Pacific Lignin Market: Impact Analysis of Drivers and Restraints
- Figure 10. Asia Pacific Lignin Market Volume and Forecast to 2028 (Tons)
- Figure 11. Asia Pacific Lignin Market Revenue and Forecast to 2028 (US\$ Thousand)
- Figure 12. Asia Pacific Lignin Market Revenue Share, By Type (2021 and 2028)
- Figure 13. Lignosulfonates: Asia Pacific Lignin Market Volume and Forecast To 2028 (Tons)
- Figure 14. Lignosulfonates: Asia Pacific Lignin Market Revenue and Forecast To 2028 (US\$ Thousand)
- Figure 15. Kraft Lignin: Asia Pacific Lignin Market Volume and Forecast To 2028 (Tons)
- Figure 16. Kraft Lignin: Asia Pacific Lignin Market Revenue and Forecast To 2028 (US\$ Thousand)
- Figure 17. High Purity Lignin: Asia Pacific Lignin Market Volume and Forecast To 2028 (Tons)
- Figure 18. High Purity Lignin: Asia Pacific Lignin Market Revenue and Forecast To 2028 (US\$ Thousand)
- Figure 19. Others: Asia Pacific Lignin Market Volume and Forecast To 2028 (Tons)
- Figure 20. Others: Asia Pacific Lignin Market Revenue and Forecast To 2028 (US\$ Thousand)
- Figure 21. Asia Pacific Lignin Market Revenue Share, By Form (2021 and 2028)
- Figure 22. Solid: Asia Pacific Lignin Market Revenue and Forecast To 2028 (US\$ Thousand)
- Figure 23. Liquid: Asia Pacific Lignin Market Revenue and Forecast To 2028 (US\$ Thousand)
- Figure 24. Asia Pacific Lignin Market Revenue Share, By Application (2021 and 2028)
- Figure 25. Concrete Additives: Asia Pacific Lignin Market Revenue and Forecast To 2028 (US\$ Thousand)



Figure 26. Plastics and Polymers: Asia Pacific Lignin Market – Revenue and Forecast To 2028 (US\$ Thousand)

Figure 27. Bitumen: Asia Pacific Lignin Market – Revenue and Forecast To 2028 (US\$ Thousand)

Figure 28. Water Treatment: Asia Pacific Lignin Market – Revenue and Forecast To 2028 (US\$ Thousand)

Figure 29. Dyes and Pigments: Asia Pacific Lignin Market – Revenue and Forecast To 2028 (US\$ Thousand)

Figure 30. Activated Carbon: Asia Pacific Lignin Market – Revenue and Forecast To 2028 (US\$ Thousand)

Figure 31. Carbon Fiber: Asia Pacific Lignin Market – Revenue and Forecast To 2028 (US\$ Thousand)

Figure 32. Others: Asia Pacific Lignin Market – Revenue and Forecast To 2028 (US\$ Thousand)

Figure 33. Asia Pacific: Lignin Market, by Key Country – Revenue (2021) (US\$ Million)

Figure 34. Asia Pacific: Lignin Market Revenue Share, by Key Country (2021 and 2028)

Figure 35. Australia: Lignin Market – Volume and Forecast to 2028 (Tons)

Figure 36. Australia: Lignin Market –Revenue and Forecast to 2028 (US\$ Thousand)

Figure 37. China: Lignin Market – Volume and Forecast to 2028 (Tons)

Figure 38. China: Lignin Market –Revenue and Forecast to 2028 (US\$ Thousand)

Figure 39. India: Lignin Market – Volume and Forecast to 2028 (Tons)

Figure 40. India: Lignin Market –Revenue and Forecast to 2028 (US\$ Thousand)

Figure 41. Japan: Lignin Market – Volume and Forecast to 2028 (Tons)

Figure 42. Japan: Lignin Market –Revenue and Forecast to 2028 (US\$ Thousand)

Figure 43. South Korea: Lignin Market – Volume and Forecast to 2028 (Tons)

Figure 44. South Korea: Lignin Market –Revenue and Forecast to 2028 (US\$ Thousand)

Figure 45. Rest of Asia Pacific: Lignin Market – Volume and Forecast to 2028 (Tons)

Figure 46. Rest of Asia Pacific: Lignin Market –Revenue and Forecast to 2028 (US\$ Thousand)



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