

Global Wood Pyrolysis Oil Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GBC796BB6918EN.html>

Date: August 2026

Pages: 90

Price: US\$ 3,480.00 (Single User License)

ID: GBC796BB6918EN

Abstracts

According to our (Global Info Research) latest study, the global Wood Pyrolysis Oil market size was valued at US\$ 77.17 million in 2025 and is forecast to a readjusted size of US\$ 170 million by 2032 with a CAGR of 11.7% during review period.

Wood Pyrolysis Oil refers to a dark brown to black liquid fuel and chemical intermediate produced by condensing volatile products generated from fast pyrolysis, catalytic pyrolysis, or related thermochemical conversion of wood, wood chips, sawdust, bark, forestry residues, and other woody biomass under oxygen-free or low-oxygen conditions. It is typically a fluid liquid with relatively high oxygen content, high moisture content, and strong acidity. Its main constituents include water, carboxylic acids, aldehydes, ketones, phenolics, furans, sugar-derived compounds, lignin-derived compounds, and small amounts of aromatic compounds. Wood Pyrolysis Oil is different from Wood Tar and Coal Tar, with its product scope focused on liquid products from fast pyrolysis of woody biomass, also commonly referred to as Fast Pyrolysis Bio-oil or Wood-based Bio-oil.

Wood Pyrolysis Oil is mainly produced in countries and regions with strong forest resources, sawmill by-product availability, and supportive biomass energy policies, including Finland, Sweden, the Netherlands, Canada, the United States, Brazil, and China. The product can be directly used in industrial boilers, district heating, and industrial steam systems as a substitute for heavy or light fuel oil. It can also serve as an intermediate feedstock for refinery co-processing, bio-based fuels, bio-based aromatic chemicals, resin raw materials, asphalt modifiers, and carbon material precursors. With rising demand for low-carbon fuels, industrial heat decarbonization, and higher-value utilization of woody biomass, Wood Pyrolysis Oil is expanding from a

regional fuel substitute toward an upgradeable fuel and bio-based chemical feedstock.

In 2025, global commercial production of Wood Pyrolysis Oil reached approximately 130,000 to 150,000 tons, mainly supplied by woody biomass fast pyrolysis plants, sawmill residue-based pyrolysis projects, and forest residue utilization projects. The average FOB price of fuel-grade Wood Pyrolysis Oil was approximately USD 520 to USD 580 per ton, while products used for refinery co-processing, specialty chemical development, or small-volume high-specification applications were generally priced above fuel-grade products.

The global Wood Pyrolysis Oil market is moving from commercial validation toward broader scale-up. Compared with traditional solid biomass fuels, Wood Pyrolysis Oil offers a liquid form, easier storage and transportation, higher energy density than wood chips, and the ability to replace fossil fuel oil in boilers and industrial steam systems. These characteristics support its application potential in industrial heating, district heating, food and chemical process heat, refinery co-processing, and bio-based fuel development. Europe and North America currently have the strongest commercial foundation, supported by forest resources, sawmill residues, low-carbon fuel policies, and established heating infrastructure. As industrial sectors accelerate decarbonization, Wood Pyrolysis Oil is expected to capture additional opportunities as a renewable liquid energy carrier for heat substitution, low-carbon refinery feedstocks, and bio-based chemical applications.

However, wider adoption of Wood Pyrolysis Oil still faces technical, cost, and end-use compatibility challenges. The product has high oxygen content, high moisture content, strong acidity, and higher requirements for storage stability, corrosion control, combustion system adaptation, and downstream upgrading compared with conventional fuel oil. Feedstock collection radius, woody residue pricing, plant utilization rate, and policy support also have a significant impact on project economics. In the near term, market growth will mainly depend on stable operation of commercial plants, substitution demand from industrial heating customers, and expansion of refinery co-processing trials. Over the medium to long term, as fast pyrolysis, catalytic upgrading, hydrodeoxygenation, and bio-oil fractionation technologies mature, Wood Pyrolysis Oil is expected to expand from a low-carbon fuel into sustainable aviation fuel intermediates, low-carbon marine fuels, bio-based aromatic chemicals, and functional material precursors, upgrading the value chain from energy substitution to higher-value biorefining.

This report is a detailed and comprehensive analysis for global Wood Pyrolysis Oil market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Wood Pyrolysis Oil market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Wood Pyrolysis Oil market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Wood Pyrolysis Oil market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Wood Pyrolysis Oil market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Wood Pyrolysis Oil

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Wood Pyrolysis Oil market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Twence Holding B.V., Pyrocell AB, Bio?nergie

AE C?te-Nord Canada Inc., Kerry Group plc, Ensyn Corporation, Suzano S.A., ONYM Group, Charm Industrial, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Wood Pyrolysis Oil market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Crude Fast Pyrolysis Oil

Stabilized Pyrolysis Oil

Upgraded Pyrolysis Oil

Market segment by Product Grade

Fuel Grade

Processing Grade

Chemical Grade

Market segment by Production Technology

Fast Pyrolysis

Catalytic Pyrolysis

Slow Pyrolysis with Liquid Recovery

Market segment by Processing Level

Raw Condensed Oil

Filtered and Settled Oil

Fractionated or Upgraded Oil

Market segment by Application

Industrial Energy

Utilities and District Heating

Petroleum Refining and Biofuels

Chemicals and Materials

Major players covered

Twence Holding B.V.

Pyrocell AB

Bio?nergie AE C?te-Nord Canada Inc.

Kerry Group plc

Ensyn Corporation

Suzano S.A.

ONYM Group

Charm Industrial, Inc.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Wood Pyrolysis Oil product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wood Pyrolysis Oil, with price, sales quantity, revenue, and global market share of Wood Pyrolysis Oil from 2021 to 2026.

Chapter 3, the Wood Pyrolysis Oil competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Wood Pyrolysis Oil breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Wood Pyrolysis Oil market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Wood Pyrolysis Oil.

Chapter 14 and 15, to describe Wood Pyrolysis Oil sales channel, distributors, customers, research findings and conclusion.

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