

Global Paper Friction Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Paper Friction Materials market size is expected to reach \$ 2995 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

Paper friction materials are porous composite friction materials made from cellulose fibers, aramid fibers, mineral fibers, phenolic resin, rubber, graphite, friction modifiers and fillers through papermaking, impregnation, curing, bonding, hot pressing and precision finishing. They are usually bonded to steel cores or clutch plates and operate in ATF, hydraulic oil or lubricating oil. Their key function is to provide stable torque transfer, clutch engagement, energy absorption and wear control in wet clutches, automatic transmissions, CVT, DCT, DHT, torque-converter lock-up clutches, construction machinery wet brakes, agricultural drivetrains, forklifts and industrial wet transmission systems.

In 2025, global paper friction materials production reached approximately 1.9 billion units, with an average global market price is \$1.1 per unit.

Paper friction materials are friction-functional materials made from fiber-based paper substrates impregnated and cured with resin, fillers, friction modifiers, reinforcing fibers, and functional additives. They are mainly used in wet friction plates, wet clutch discs, torque-converter lock-up clutch plates, automatic-transmission brake plates, all-wheel-drive coupling plates, limited-slip differential plates, and selected industrial wet clutch or brake systems. The material is usually not a standalone finished component; instead, it serves as the friction layer bonded to a steel core plate or carrier and is further processed into friction plates, clutch discs, or brake plates.

In terms of performance, paper-based friction materials offer high porosity, good oil

absorption, compressibility, permeability, tunable friction behavior, smooth engagement, and strong high-volume manufacturing consistency. They are especially suitable for operation in lubricating oil or automatic transmission fluid. Their performance depends not only on the fiber substrate, resin system, fillers, and friction modifiers, but also on steel-plate surface roughness, fluid chemistry, groove structure, engagement pressure, friction energy, operating temperature, and electronic control strategy.

By application, paper-based friction materials are mainly used in automotive AT clutch and brake packs, wet DCT clutch packs, dedicated hybrid transmissions, torque-converter lock-up clutches, CVT launch clutches, transfer cases, all-wheel-drive torque-management systems, and limited-slip differentials. Compared with carbon-based friction materials, paper-based materials usually offer stronger advantages in cost efficiency, friction-tuning flexibility, and high-volume manufacturing. Compared with non-woven materials, they benefit from more mature formulations, broader supply-chain support, and deeper application experience.

From an industry perspective, demand for paper-based friction materials is mainly driven by automatic transmissions, wet dual-clutch transmissions, hybrid drivetrains, intelligent all-wheel-drive systems, and high-efficiency transmission systems. As drivetrains move toward more gear ratios, higher efficiency, higher torque density, lower drag loss, and smoother shifting, paper-based friction materials will continue to evolve toward higher energy density, lower wear, reduced judder, higher heat resistance, longer life, stronger fluid compatibility, and environmentally compliant formulations.

This report studies the global Paper Friction Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Paper Friction Materials and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Paper Friction Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Paper Friction Materials total production and demand, 2021-2032, (K Units)
Global Paper Friction Materials total production value, 2021-2032, (USD Million)
Global Paper Friction Materials production by region & country, production, value,

CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Paper Friction Materials consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Paper Friction Materials domestic production, consumption, key domestic manufacturers and share

Global Paper Friction Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Paper Friction Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Paper Friction Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Paper Friction Materials market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Dynax, BorgWarner, Aisin Corporation, F.C.C., Miba AG, NSK Warner, Carlisle Brake & Friction, Jiangsu Lintex Advanced Materials, Zhejiang Kema Friction Materials, Alto Products Corp., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Paper Friction Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Paper Friction Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Paper Friction Materials Market, Segmentation by Type:

Glass Fiber

Aramid Fiber

Carbon Fiber

Others

Global Paper Friction Materials Market, Segmentation by Drivetrain System:

Automatic Transmission(AT)

Dual-Clutch Transmission(DCT)

Continuously Variable Transmission(CVT)

Dedicated Hybrid Transmission(DHT)

Others

Global Paper Friction Materials Market, Segmentation by Sales Channel:

OEM

Aftermarket

Global Paper Friction Materials Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Others

Companies Profiled:

Dynax

BorgWarner

Aisin Corporation

F.C.C.

Miba AG

NSK Warner

Carlisle Brake & Friction

Jiangsu Lintex Advanced Materials

Zhejiang Kema Friction Materials

Alto Products Corp.

Raybestos Powertrain

Key Questions Answered:

1. How big is the global Paper Friction Materials market?
2. What is the demand of the global Paper Friction Materials market?
3. What is the year over year growth of the global Paper Friction Materials market?
4. What is the production and production value of the global Paper Friction Materials market?
5. Who are the key producers in the global Paper Friction Materials market?
6. What are the growth factors driving the market demand?

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