

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

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Abstracts

The global Wet Friction Materials market size is expected to reach \$ 4078 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

Wet friction materials are friction functional materials designed to operate in oil, automatic transmission fluid, hydraulic oil or other lubricating media. They are typically made from paper-based fiber composites, carbon-based composites, sintered metals, nonwoven fibers, molybdenum coatings or other composite systems, and are bonded, sintered or coated onto steel cores, clutch plates, brake plates or friction discs. Their key function is to provide stable torque transmission, braking, clutch engagement, energy absorption and wear control under lubricated conditions. Upstream inputs include cellulose fibers, aramid fibers, phenolic resin, rubber, graphite, carbon materials, metal powders, steel plates and friction modifiers; downstream applications include automatic transmissions, wet DCT, CVT, DHT/hybrid systems, AWD couplings, construction machinery, mining equipment, agricultural machinery, forklifts, marine systems and industrial wet brakes.

In 2025, global wet friction materials production reached approximately 2.3 billion units, with an average global market price is \$1.2 per unit.

Wet friction materials are friction materials designed to operate in fluid media such as lubricating oil, automatic transmission fluid, or dedicated drivetrain fluid. They are mainly used as the friction material layer in wet friction plates, wet clutch discs, wet brake plates, torque-converter lock-up clutch plates, all-wheel-drive coupling plates, limited-slip differential plates, and selected industrial wet brake or clutch systems. In essence, they are compressible, porous, and permeable friction materials that work together with steel plates or mating metal surfaces under oil-film, contact-pressure, and speed-

difference conditions to transmit torque, execute shift engagement, provide lock-up, braking, or torque distribution.

By material system, wet friction materials are mainly classified into paper-based wet friction materials, carbon-based wet friction materials, non-woven wet friction materials, and other composite wet friction materials. Paper-based materials are the most widely used solution in automatic transmissions, wet dual-clutch transmissions, and hybrid transmissions because of their high porosity, good oil absorption, tunable friction behavior, moderate cost, and strong high-volume manufacturing consistency. Carbon-based materials are more suitable for high thermal load, high energy density, continuous slip, and high-durability applications. Non-woven materials provide advantages in oil permeability, compressibility, wear resistance, and shift comfort.

In terms of application structure, wet friction materials are mainly used in automotive AT clutch and brake packs, wet DCTs, dedicated hybrid transmissions, torque-converter lock-up clutches, CVT launch clutches, all-wheel-drive torque-management systems, limited-slip differentials, motorcycle wet clutches, and selected construction machinery, agricultural machinery, marine, and industrial drivetrain systems. Compared with dry friction materials, wet friction materials use oil for cooling and lubrication, allowing higher engagement frequency, higher thermal-load capacity, and more compact multi-plate packaging. However, they are more sensitive to fluid contamination, water ingress, oil degradation, and control calibration. Research on wet clutches shows that water contamination in automatic transmission fluid can alter friction behavior and influence clutch-plate deterioration.

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

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

This report is a detailed and comprehensive analysis of the world market for Wet 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 Wet Friction Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Wet Friction Materials total production and demand, 2021-2032, (K Units)

Global Wet Friction Materials total production value, 2021-2032, (USD Million)

Global Wet Friction Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

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

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

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

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

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

This report profiles key players in the global Wet 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 Wet 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 Wet Friction Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Wet Friction Materials Market, Segmentation by Type:

Paper-Based Friction Material

Non-Woven Friction Material

Carbon-Based Friction Material

Others

Global Wet Friction Materials Market, Segmentation by Drivetrain System:

Automatic Transmission(AT)

Dual-Clutch Transmission(DCT)

Continuously Variable Transmission(CVT)

Dedicated Hybrid Transmission(DHT)

Others

Global Wet Friction Materials Market, Segmentation by Sales Channel:

OEM

Aftermarket

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

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