

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

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Abstracts

The global Wet Friction Plates market size is expected to reach \$ 4169 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Wet friction plates are friction transmission components operating in transmission oil, hydraulic oil or dedicated lubricating/cooling media. They are typically made by bonding paper-based, carbon-based, sintered metallic or composite friction materials onto steel cores, and are used for clutch engagement, braking, lock-up, shifting and power coupling in automatic and hybrid transmissions. Key upstream inputs include steel plates, cellulose fibres, aramid fibres, carbon fibres, phenolic resins, elastomers, graphite, friction modifiers, copper/iron-based metal powders and process materials for stamping, impregnation, curing, bonding and sintering. Downstream applications include AT, wet DCT, CVT, DHT/e-CVT, PHEV/HEV hybrid transmissions, torque-converter lock-up clutches, and selected commercial-vehicle, construction-machinery and agricultural wet drivetrains. Compared with dry friction plates, wet clutch plates require stronger oil compatibility, fade resistance, friction-coefficient stability, shift smoothness and durability.

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

Wet friction plates are friction transmission components operating in lubricating oil, automatic transmission fluid, or dedicated drivetrain fluid. They are typically arranged alternately with steel plates to form a friction plate pack and are used in automatic transmissions, wet dual-clutch transmissions, hybrid transmissions, torque-converter lock-up clutches, CVT launch clutches, all-wheel-drive torque transfer systems, limited-slip differentials, and selected wet brake systems. Their core function is to transmit

torque, execute shift engagement, provide lock-up control, braking, or torque distribution under the combined effects of oil film, pressure, and speed difference. Compared with dry friction components, wet friction plates rely on oil cooling and lubrication, enabling higher engagement frequency, higher thermal-load capacity, and compact multi-plate packaging. However, they require tighter matching among friction material, steel plate surface, fluid chemistry, groove design, and control strategy.

By material system, wet friction plates are mainly classified into paper-based friction plates, carbon-based friction plates, non-woven friction plates, and other composite friction materials. Paper-based materials are the most common solution in AT, DCT, and hybrid transmission applications because of their tunable friction behavior, good fluid compatibility, moderate cost, and stable high-volume production consistency. Carbon-based materials are more suitable for high thermal load, high energy density, and high durability requirements. Non-woven materials offer advantages in oil permeability, compressibility, wear resistance, and shift comfort. Structurally, a wet friction plate normally consists of a steel core plate, friction material layers, bonding layers, and groove geometry, with key processes including impregnation, hot pressing, curing, grooving, grinding, and surface finishing.

In automotive drivetrains, wet friction plates are mainly used in AT clutch and brake packs, wet DCT modules, hybrid transmission systems, torque-converter lock-up clutches, all-wheel-drive couplings, and limited-slip differentials. As automatic transmissions move toward more gear ratios, higher efficiency, and higher torque density, and as hybrid systems require more compact multi-clutch control architectures, wet friction plates are evolving toward higher friction stability, lower drag loss, reduced judder, higher heat resistance, longer service life, and stronger fluid compatibility. In the future, product competitiveness will depend not only on friction coefficient and durability, but also on the system-level matching of friction material, steel plate, transmission fluid, and electronic control strategy.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Wet Friction Plates Market, Segmentation by Type:

Paper-Based Friction Material

Non-Woven Friction Material

Carbon-Based Friction Material

Others

Global Wet Friction Plates Market, Segmentation by Drivetrain System:

Automatic Transmission(AT)

Dual-Clutch Transmission(DCT)

Continuously Variable Transmission(CVT)

Dedicated Hybrid Transmission(DHT)

Others

Global Wet Friction Plates Market, Segmentation by Sales Channel:

OEM

Aftermarket

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

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