

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

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Abstracts

The global Dry Friction Materials market size is expected to reach \$ 32584 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032).

Dry friction materials are friction functional materials designed to operate in air or non-oil-immersed environments, mainly processed into brake pads, brake linings, dry clutch facings, friction blocks and industrial friction discs. Major material systems include resin-based composites, non-asbestos organic materials, semi-metallic/low-metallic compounds, ceramic composites, fiber-reinforced materials, rubber-based materials and specialty sintered or carbon-based materials. Upstream inputs include phenolic resin, aramid fiber, glass fiber, mineral fiber, graphite, rubber, copper/steel fibers, ceramic fillers, friction modifiers and steel backing plates; downstream applications include passenger cars, commercial vehicles, motorcycles, agricultural machinery, construction equipment, industrial brakes, cranes and general machinery.

In 2025, global dry friction materials production reached approximately 1.9 billion pcs, with an average global market price is \$13 per pc.

Dry friction materials are friction-functional materials designed to operate without oil lubrication or oil-bath cooling. They are mainly used in dry clutch facings, automotive brake pads, motorcycle brake pads, industrial clutches, industrial brakes, agricultural machinery, construction machinery, and other dry transmission or braking systems. Their core function is to transmit torque, disconnect power, decelerate, stop, or hold load through controlled direct contact between friction surfaces. Compared with wet friction materials, dry friction materials do not rely on fluid cooling or lubrication, so they require higher stability of friction coefficient, heat resistance, fade resistance, wear resistance, crack resistance, low noise, low judder, and controlled counterface wear.

By material system, dry friction materials can be divided into organic friction materials, semi-metallic friction materials, sintered metallic friction materials, ceramic-reinforced friction materials, carbon-based friction materials, and other high-performance composites. Organic materials are typically based on phenolic resin, rubber or elastomer systems, aramid fiber, glass fiber, mineral fiber, fillers, and friction modifiers. They offer smooth engagement, lower noise, moderate cost, and broad application compatibility, making them common in passenger-car dry clutches and standard brake pads. Semi-metallic and low-metallic materials are used where higher heat resistance and braking force are required, while sintered metallic, ceramic-reinforced, and carbon-based materials are more suitable for high-temperature, high-load, high-speed, or frequent braking and engagement conditions.

In terms of applications, dry friction materials are used in automotive dry clutches, dry dual-clutch systems, automotive disc and drum brake pads, motorcycle brake pads, racing brake systems, industrial dry clutches, industrial brakes, and selected wind-power, mining, port machinery, and construction-equipment braking applications. In automotive clutches, dry friction materials must balance smooth launch engagement, durability during slipping operation, thermal fade control, and NVH performance. In brake systems, key requirements include braking force, thermal stability, wear life, rotor or drum compatibility, noise control, and dust reduction. High-performance and racing applications often use ceramic, sintered, or carbon-based formulations to maintain friction stability at elevated temperatures and under repeated braking, although these materials require tighter balancing of cost, comfort, counterface wear, and low-temperature performance. Some ceramic clutch facings are made from materials such as copper, iron, bronze, silicon dioxide, and graphite, and are sintered or brazed onto a backing structure for demanding high-temperature applications such as racing.

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

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

Highlights and key features of the study

Global Dry Friction Materials total production and demand, 2021-2032, (K Pcs)

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

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

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

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

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

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

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

This report profiles key players in the global Dry 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 Schaeffler Friction Products GmbH, Valeo, Miba AG, Carlisle Brake & Friction, EXEDY Corporation, F.C.C., Zhejiang Kema Friction Materials, Tungaloy Corporation, Fricwel Auto, BOSCH, 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 Dry Friction Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) 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 Dry Friction Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Dry Friction Materials Market, Segmentation by Type:

Organic Resin-Based Materials

Semi-Metallic Materials

Ceramic Composite Materials

Others

Global Dry Friction Materials Market, Segmentation by Component Form:

Brake Pads

Dry Friction Discs

Others

Global Dry Friction Materials Market, Segmentation by Sales Channel:

OEM

Aftermarket

Global Dry Friction Materials Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Others

Companies Profiled:

Schaeffler Friction Products GmbH

Valeo

Miba AG

Carlisle Brake & Friction

EXEDY Corporation

F.C.C.

Zhejiang Kema Friction Materials

Tungaloy Corporation

Fricwel Auto

BOSCH

TMD Friction Group

Tenneco LLC

Akebono Brake Industry

Nisshinbo Brake

Frasle Mobility S.A.

Sangsin Brake

ADVICS

ZF

Brembo

Shandong Gold Phoenix

Shandong Xinyi Auto Parts Manufacturing

Zhuhai Glory Friction Material

Rane Brake Lining Limited

Hindustan Composites Limited

Sundaram Brake Linings Limited

ASK Automotive Limited

ITT Corporation

Jiangsu Fangyi Friction Material

MAT Friction Group

Shandong Double Link Brake Material

Zhejiang Lamda Technology

Hangzhou Annat Industry

Key Questions Answered:

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

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