

Global Dry Friction Materials Market Growth 2026-2032

<https://marketpublishers.com/r/GF2EAF8BC6EEN.html>

Date: October 2026

Pages: 222

Price: US\$ 3,660.00 (Single User License)

ID: GF2EAF8BC6EEN

Abstracts

The global Dry Friction Materials market size is predicted to grow from US\$ 24240 million in 2025 to US\$ 31402 million in 2032; it is expected to grow at a CAGR of 4.0% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the “Dry Friction Materials Industry Forecast” looks at past sales and reviews total world Dry Friction Materials sales in 2025, providing a comprehensive analysis by region and market sector of projected Dry Friction Materials sales for 2026 through 2032. With Dry Friction Materials sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Dry Friction Materials industry.

This Insight Report provides a comprehensive analysis of the global Dry Friction Materials landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Dry Friction Materials portfolios and capabilities, market entry strategies, market positions,

and geographic footprints, to better understand these firms' unique position in an accelerating global Dry Friction Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Dry Friction Materials and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Dry Friction Materials.

This report presents a comprehensive overview, market shares, and growth opportunities of Dry Friction Materials market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Organic Resin-Based Materials

Semi-Metallic Materials

Ceramic Composite Materials

Others

Segmentation by Component Form:

Brake Pads

Dry Friction Discs

Others

Segmentation by Sales Channel:

OEM

Aftermarket

Segmentation by Application:

Passenger Car

Commercial Vehicle

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Dry Friction Materials market?

What factors are driving Dry Friction Materials market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Dry Friction Materials market opportunities vary by end market size?

How does Dry Friction Materials break out by Type, by Application?

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