

Global Passenger Cars Friction Material Market Growth 2026-2032

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Abstracts

The global Passenger Cars Friction Material market size is predicted to grow from US\$ 13373 million in 2025 to US\$ 16705 million in 2032; it is expected to grow at a CAGR of 3.3% from 2026 to 2032.

Passenger cars friction materials are engineered composites used in disc and drum brake systems to convert vehicle kinetic energy into heat through controlled friction. They are supplied mainly as brake pads, brake linings, and friction blocks for brake shoes. Major upstream materials include phenolic resins and other binders; aramid, steel, and mineral fibers; graphite, barite, rubber, metal powders, abrasives, lubricants, and functional fillers. In practical vehicle operation, the formulation must balance braking stability, fade resistance, wear life, rotor compatibility, noise-vibration-harshness performance, brake dust, and environmental compliance. Key downstream markets are passenger-car OEM assembly and aftermarket replacement through workshops, service chains, e-commerce, and independent distributors.

In 2025, global passenger cars friction material production reached approximately 900 million sets, with an average global market price is \$15 per set.

From a global industry perspective, passenger cars friction materials are critical materials within vehicle chassis safety systems and the automotive aftermarket consumables chain. They serve internal-combustion vehicles, hybrid electric vehicles, plug-in hybrids and battery electric vehicles. Their performance is not determined by one ingredient alone, but by the interaction of formulation chemistry, molding and curing processes, friction-material-to-backing-plate bonding, rotor matching, vehicle mass, speed, axle load, thermal conditions and NVH requirements. Passenger-car suppliers therefore develop differentiated formulations for mainstream passenger cars, premium

models, SUVs, performance vehicles and new-energy vehicles.

In terms of technology direction, passenger car friction materials are moving away from traditional high-metal-load formulations toward low-copper or copper-free systems, lower dust, lower noise, lower wear, stronger thermal stability, better corrosion resistance and higher manufacturing consistency. The U.S. EPA's Copper-Free Brake Initiative set targets to reduce copper in brake pads to below 5% by weight in 2021 and to 0.5% by 2025, while also reducing mercury, lead, cadmium, asbestiform fibers and chromium-six salts. This transition requires material suppliers to rebalance friction stability, noise, fade resistance, wear and rotor compatibility through combinations of mineral fillers, graphite, ceramic particles, metal sulfides, reinforcing fibers and functional lubricants.

Electric and hybrid vehicles are changing the operating conditions of passenger car friction materials rather than eliminating friction braking. Regenerative braking can reduce conventional brake usage and pad wear, but friction brakes remain essential during emergency braking, high-speed braking, low-speed stopping, full-battery conditions and situations where regenerative capacity is constrained. As a result, new-energy passenger vehicles place greater emphasis on low-temperature response, low noise, low drag, corrosion resistance, anti-sticking performance and braking reliability after long parking periods. Because EVs operate more quietly, even moderate brake noise can become more noticeable to drivers and passengers.

The main growth drivers come from three areas. First, the expanding passenger-car parc and the recurring replacement cycle for brake pads, brake linings and parking-brake components provide a stable demand base. Second, electrification, lightweighting and premiumization are raising requirements for braking comfort, NVH control, thermal stability, durability and safety margins, pushing friction materials toward higher-performance formulations. Third, non-exhaust particulate-emission regulation is becoming more important. The EU's Euro 7 framework brings brake-particle emissions into regulation and sets brake-emission requirements by vehicle category, encouraging the development of lower-wear, lower-dust and more stable friction-material systems.

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

world Passenger Cars Friction Material industry.

This Insight Report provides a comprehensive analysis of the global Passenger Cars Friction Material 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 Passenger Cars Friction Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Passenger Cars Friction Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Passenger Cars Friction Material 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 Passenger Cars Friction Material.

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

Segmentation by Type:

Semi-Metallic Friction Material

Non-Asbestos Organic (NAO) Friction Material

Others

Segmentation by Product Form:

Disc Brake Pads

Brake Linings

Others

Segmentation by Vehicle:

Internal Combustion Engines

New Energy Vehicles

Segmentation by Application:

OEM

Aftermarket

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.

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 Passenger Cars Friction Material market?

What factors are driving Passenger Cars Friction Material market growth, globally and by region?

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

How do Passenger Cars Friction Material market opportunities vary by end market size?

How does Passenger Cars Friction Material break out by Type, by Application?

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