

# Global Commercial Vehicle Friction Material Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Commercial Vehicle Friction Material market size is expected to reach \$ 12403 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

Commercial vehicle friction materials are engineered composite components installed in truck, van, bus, coach braking systems to convert vehicle kinetic energy into heat through controlled friction. They are supplied mainly as disc brake pads, drum brake linings, brake-shoe friction blocks, and parking-brake friction components. Major upstream materials include phenolic and modified phenolic resins, steel and other metal fibers, aramid fibers, mineral fibers, glass fibers, graphite, barite, rubber, metal powders, alumina, abrasives, lubricants, and functional fillers. Compared with passenger-car products, commercial-vehicle friction materials place greater emphasis on loaded-vehicle thermal stability, fade resistance, wear life, drum or rotor compatibility, and total cost of ownership. Core downstream markets include OEM assembly and independent aftermarket replacement.

In 2025, global commercial vehicle friction material production reached approximately 200 million sets, with an average global market price is \$45 per set.

From a global industry perspective, commercial vehicle friction materials generally face more demanding duty cycles than standard passenger-car braking materials because they operate under higher gross vehicle weight, larger axle loads, higher braking energy, frequent stop-start driving, long downhill operation, full-load transportation, construction-site usage and variable climate conditions. Heavy-duty trucks, construction vehicles, refuse trucks, highway tractors and buses continue to use drum brakes or mixed disc-and-drum configurations in many applications, so drum brake linings remain

an important commercial-vehicle friction-material category. Bendix's heavy-duty brake range covers heavy-haul, construction, refuse and highway truck applications and emphasizes application-engineered linings, brake life and maintenance-cost reduction.

Compared with passenger-car materials, commercial vehicle friction materials place greater emphasis on high-temperature fade resistance, thermal-crack risk control, wear life, predictable braking force, heavy-load low-speed performance, rotor or drum compatibility, riveted or bonded lining reliability and lifecycle cost. Under long downhill braking, repeated braking and high axle loads, materials must maintain stable friction while avoiding severe fade, lining degradation, abnormal wear, drum cracking and excessive brake noise.

In terms of technology routes, commercial vehicle friction materials commonly include non-asbestos organic, low-metallic, semi-metallic, high-metallic and high-temperature heavy-duty formulations. Drum brake linings typically place stronger emphasis on heat resistance, wear resistance, crush resistance and rivet stability, while disc pads focus more on high-temperature friction stability, controlled wear, lower noise and rotor compatibility. The industry is moving toward low-copper or copper-free chemistry, lower dust, lower wear, higher thermal stability, lower noise, corrosion resistance, longer service life and higher batch consistency. The U.S. EPA's Copper-Free Brake Initiative called for reducing copper in brake pads to 0.5% by weight by 2025 while reducing mercury, lead, cadmium, asbestiform fibers and chromium-six salts; its signatories include heavy-duty vehicle and related industry organizations.

Electrified commercial vehicles will not eliminate friction braking; instead, they change its operating pattern. Electric light trucks, electric buses and hybrid commercial vehicles can use regenerative braking to reduce routine friction-brake activation, but fully loaded emergency braking, long downhill braking, low-speed stopping, low-adhesion conditions and limited regenerative capacity still depend heavily on friction brakes. Lower routine brake use can increase risks related to rotor or drum corrosion, lining adhesion, low-speed noise and braking response after extended parking. Consequently, electric commercial vehicles place greater emphasis on low-temperature response, corrosion resistance, low drag, anti-sticking behavior and stable braking under high loads. At the regulatory level, the EU's Euro 7 framework has incorporated brake-particle emissions into vehicle type-approval requirements, reinforcing the direction toward lower-wear, lower-dust and more stable friction-material formulations.

This report studies the global Commercial Vehicle Friction Material production, demand, key manufacturers, and key regions.

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

#### Highlights and key features of the study

Global Commercial Vehicle Friction Material total production and demand, 2021-2032, (K Sets)

Global Commercial Vehicle Friction Material total production value, 2021-2032, (USD Million)

Global Commercial Vehicle Friction Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sets), (based on production site)

Global Commercial Vehicle Friction Material consumption by region & country, CAGR, 2021-2032 & (K Sets)

U.S. VS China: Commercial Vehicle Friction Material domestic production, consumption, key domestic manufacturers and share

Global Commercial Vehicle Friction Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sets)

Global Commercial Vehicle Friction Material production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

Global Commercial Vehicle Friction Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

This report profiles key players in the global Commercial Vehicle Friction Material 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 BOSCH, TMD Friction Group, Tenneco LLC, Akebono Brake Industry, Nisshinbo Brake, Frasle Mobility S.A., Sangsin Brake, ADVICS, ZF, Brembo, 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 Commercial Vehicle Friction Material market

### Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sets) and average price (US\$/Set) 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 Commercial Vehicle Friction Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Commercial Vehicle Friction Material Market, Segmentation by Type:

Semi-Metallic Friction Material

Non-Asbestos Organic (NAO) Friction Material

Asbestos Friction Material

### Global Commercial Vehicle Friction Material Market, Segmentation by Product Form:

Disc Brake Pads

Brake Linings

Others

Global Commercial Vehicle Friction Material Market, Segmentation by Vehicle:

Internal Combustion Engines

New Energy Vehicles

Global Commercial Vehicle Friction Material Market, Segmentation by Application:

OEM

Aftermarket

Companies Profiled:

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 Commercial Vehicle Friction Material market?
2. What is the demand of the global Commercial Vehicle Friction Material market?
3. What is the year over year growth of the global Commercial Vehicle Friction Material market?
4. What is the production and production value of the global Commercial Vehicle Friction Material market?
5. Who are the key producers in the global Commercial Vehicle Friction Material market?

6. What are the growth factors driving the market demand?

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