

Global Semi-metallic Brake Pads Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semi-metallic Brake Pads market size is expected to reach \$ 10052 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

Semi-metallic brake pads are resin-bonded friction materials made with steel fibers, iron powder, copper fibers, graphite, carbon materials, abrasives, fillers and friction modifiers. Their metal content is generally higher than low-metallic pads but lower than sintered metal pads. They provide strong braking force, good thermal conductivity, high-temperature stability and better fade resistance, making them suitable for SUVs, pickups, light commercial vehicles, commercial vehicles, towing, mountain driving and aftermarket replacement. Their main trade-offs are higher noise, dust and rotor wear compared with NAO organic or ceramic pads. Upstream materials include steel fibers, iron powder, copper materials, graphite, phenolic resin, rubber, abrasives, fillers and backing plates; downstream demand comes from OEMs, brake system suppliers, repair shops and branded aftermarket channels. Semi-metallic pads are preferred where heat dissipation and stopping power are important.

In 2025, global semi metallic brake pads production reached approximately 350 million sets, with an average global market price is \$20 per set.

Semi-Metallic brake pads are brake friction components made with a resin-based binder system and a relatively high proportion of metallic fibers or powders, such as steel fiber, copper fiber, iron powder, copper powder, graphite, mineral fillers, abrasives, lubricants, and friction modifiers. They are mainly used in passenger cars, light commercial vehicles, medium- and heavy-duty commercial vehicles, SUVs, pickup trucks, selected motorcycles, and the replacement aftermarket. Compared with organic brake pads,

semi-metallic pads generally provide better thermal conductivity, braking force, high-temperature resistance, fade resistance, and suitability for high-load conditions. Compared with ceramic pads, they are often stronger in towing, mountain driving, commercial-vehicle use, and repeated high-temperature braking, but they typically generate more noise, brake dust, and rotor wear.

By application scenario, Semi-metallic brake pads can be segmented into passenger-car semi-metallic pads, SUV and pickup semi-metallic pads, light-commercial-vehicle semi-metallic pads, medium- and heavy-duty commercial-vehicle semi-metallic pads, and high-performance replacement semi-metallic pads. Passenger-car applications focus on braking response, cost, service life, and comfort balance. SUVs, pickups, and light commercial vehicles place more emphasis on thermal stability under higher vehicle weight, towing, cargo loading, and long downhill braking. Medium- and heavy-duty commercial vehicles require repeated braking capability, wear life, rotor or drum compatibility, and lower maintenance cost.

From a material and performance standpoint, semi-metallic brake pads sit between organic pads, ceramic pads, and sintered metallic pads. Metallic fibers and powders help improve heat transfer, friction stability, and high-temperature braking force. Graphite and lubricant phases help stabilize the tribofilm, reduce wear, and manage noise, while abrasives and fillers influence rotor cleaning, friction coefficient, and wear resistance. Compared with organic pads, semi-metallic pads are more suitable for high-temperature, high-speed, heavy-load, and frequent-braking use. Compared with ceramic pads, they often deliver stronger initial bite and higher thermal capacity, but weaker comfort and dust performance. Compared with sintered pads, they usually offer lower manufacturing cost and better everyday drivability, although their extreme-temperature and high-energy braking capability is generally lower than that of sintered metallic materials.

From an industry perspective, demand for Semi-Metallic Brake Pads is mainly driven by commercial vehicles, SUVs and pickups, towing and high-load vehicles, the replacement aftermarket, and selected performance vehicles. As ceramic pads gain share in comfort-oriented passenger-car applications, semi-metallic pads may face some pressure in standard passenger vehicles. However, they remain well positioned in heavy-load, high-temperature, mountainous, commercial, and value-oriented replacement applications.

This report studies the global Semi-metallic Brake Pads production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semi-metallic Brake Pads 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 Semi-metallic Brake Pads that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semi-metallic Brake Pads total production and demand, 2021-2032, (K Sets)

Global Semi-metallic Brake Pads total production value, 2021-2032, (USD Million)

Global Semi-metallic Brake Pads production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sets), (based on production site)

Global Semi-metallic Brake Pads consumption by region & country, CAGR, 2021-2032 & (K Sets)

U.S. VS China: Semi-metallic Brake Pads domestic production, consumption, key domestic manufacturers and share

Global Semi-metallic Brake Pads production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sets)

Global Semi-metallic Brake Pads production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

Global Semi-metallic Brake Pads production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

This report profiles key players in the global Semi-metallic Brake Pads 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 Semi-metallic Brake Pads 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 Semi-metallic Brake Pads Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semi-metallic Brake Pads Market, Segmentation by Type:

Steel Fiber Semi-Metallic Pads

Iron-Based Semi-Metallic Pads

Copper-Containing Semi-Metallic Pads

Others

Global Semi-metallic Brake Pads Market, Segmentation by Sales Channel:

OEM

Aftermarket

Global Semi-metallic Brake Pads Market, Segmentation by Formulation:

Standard Semi-Metallic Pads

Heavy-Duty Semi-Metallic Pads

Others

Global Semi-metallic Brake Pads Market, Segmentation by Application:

Passenger Cars

Commercial Vehicles

Motorcycles

Others

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 Semi-metallic Brake Pads market?
2. What is the demand of the global Semi-metallic Brake Pads market?
3. What is the year over year growth of the global Semi-metallic Brake Pads market?
4. What is the production and production value of the global Semi-metallic Brake Pads

market?

5. Who are the key producers in the global Semi-metallic Brake Pads market?

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

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