

Global Semi-metallic Brake Pads Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Semi-metallic Brake Pads market size was valued at US\$ 7414 million in 2025 and is forecast to a readjusted size of US\$ 10052 million by 2032 with a CAGR of 4.7% during review period.

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 is a detailed and comprehensive analysis for global Semi-metallic Brake Pads market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Semi-metallic Brake Pads market size and forecasts, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Set), 2021-2032

Global Semi-metallic Brake Pads market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Set), 2021-2032

Global Semi-metallic Brake Pads market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Set), 2021-2032

Global Semi-metallic Brake Pads market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sets), and ASP (US\$/Set), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Semi-metallic Brake Pads

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Semi-metallic Brake Pads market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Semi-metallic Brake Pads market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Steel Fiber Semi-Metallic Pads

- Iron-Based Semi-Metallic Pads

- Copper-Containing Semi-Metallic Pads

- Others

Market segment by Sales Channel

- OEM

- Aftermarket

Market segment by Formulation

- Standard Semi-Metallic Pads

- Heavy-Duty Semi-Metallic Pads

- Others

Market segment by Application

Passenger Cars

Commercial Vehicles

Motorcycles

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Semi-metallic Brake Pads product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semi-metallic Brake Pads, with price, sales quantity, revenue, and global market share of Semi-metallic Brake Pads from 2021 to 2026.

Chapter 3, the Semi-metallic Brake Pads competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Semi-metallic Brake Pads breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Semi-metallic Brake Pads market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Semi-metallic Brake Pads.

Chapter 14 and 15, to describe Semi-metallic Brake Pads sales channel, distributors, customers, research findings and conclusion.

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