

Global Semi-metallic Brake Pads Market Growth 2026-2032

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Abstracts

The global Semi-metallic Brake Pads market size is predicted to grow from US\$ 7049 million in 2025 to US\$ 9718 million in 2032; it is expected to grow at a CAGR of 5.0% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Semi-metallic Brake Pads Industry Forecast" looks at past sales and reviews total world Semi-metallic Brake Pads

sales in 2025, providing a comprehensive analysis by region and market sector of projected Semi-metallic Brake Pads sales for 2026 through 2032. With Semi-metallic Brake Pads sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Semi-metallic Brake Pads industry.

This Insight Report provides a comprehensive analysis of the global Semi-metallic Brake Pads 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 Semi-metallic Brake Pads portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Semi-metallic Brake Pads market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semi-metallic Brake Pads 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 Semi-metallic Brake Pads.

This report presents a comprehensive overview, market shares, and growth opportunities of Semi-metallic Brake Pads market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Steel Fiber Semi-Metallic Pads

Iron-Based Semi-Metallic Pads

Copper-Containing Semi-Metallic Pads

Others

Segmentation by Sales Channel:

OEM

Aftermarket

Segmentation by Formulation:

Standard Semi-Metallic Pads

Heavy-Duty Semi-Metallic Pads

Others

Segmentation by Application:

Passenger Cars

Commercial Vehicles

Motorcycles

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.

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 Semi-metallic Brake Pads market?

What factors are driving Semi-metallic Brake Pads market growth, globally and by region?

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

How do Semi-metallic Brake Pads market opportunities vary by end market size?

How does Semi-metallic Brake Pads break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Semi-metallic Brake Pads Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Semi-metallic Brake Pads by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Semi-metallic Brake Pads by Country/Region, 2021, 2025 & 2032
- 2.2 Semi-metallic Brake Pads Segment by Type
 - 2.2.1 Steel Fiber Semi-Metallic Pads
 - 2.2.2 Iron-Based Semi-Metallic Pads
 - 2.2.3 Copper-Containing Semi-Metallic Pads
 - 2.2.4 Others
 - 2.2.5 Semi-metallic Brake Pads Sales by Type
 - 2.2.5.1 Global Semi-metallic Brake Pads Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Semi-metallic Brake Pads Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Semi-metallic Brake Pads Sale Price by Type (2021-2026)
- 2.3 Semi-metallic Brake Pads Segment by Sales Channel
 - 2.3.1 OEM
 - 2.3.2 Aftermarket
 - 2.3.3 Semi-metallic Brake Pads Sales by Sales Channel
 - 2.3.3.1 Global Semi-metallic Brake Pads Sales Market Share by Sales Channel (2021-2026)
 - 2.3.3.2 Global Semi-metallic Brake Pads Revenue and Market Share by Sales Channel (2021-2026)

- 2.3.3.3 Global Semi-metallic Brake Pads Sale Price by Sales Channel (2021-2026)
- 2.4 Semi-metallic Brake Pads Segment by Formulation
 - 2.4.1 Standard Semi-Metallic Pads
 - 2.4.2 Heavy-Duty Semi-Metallic Pads
 - 2.4.3 Others
 - 2.4.4 Semi-metallic Brake Pads Sales by Formulation
 - 2.4.4.1 Global Semi-metallic Brake Pads Sales Market Share by Formulation (2021-2026)
 - 2.4.4.2 Global Semi-metallic Brake Pads Revenue and Market Share by Formulation (2021-2026)
 - 2.4.4.3 Global Semi-metallic Brake Pads Sale Price by Formulation (2021-2026)
- 2.5 Semi-metallic Brake Pads Segment by Application
 - 2.5.1 Passenger Cars
 - 2.5.2 Commercial Vehicles
 - 2.5.3 Motorcycles
 - 2.5.4 Others
 - 2.5.5 Semi-metallic Brake Pads Sales by Application
 - 2.5.5.1 Global Semi-metallic Brake Pads Sale Market Share by Application (2021-2026)
 - 2.5.5.2 Global Semi-metallic Brake Pads Revenue and Market Share by Application (2021-2026)
 - 2.5.5.3 Global Semi-metallic Brake Pads Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Semi-metallic Brake Pads Breakdown Data by Company
 - 3.1.1 Global Semi-metallic Brake Pads Annual Sales by Company (2021-2026)
 - 3.1.2 Global Semi-metallic Brake Pads Sales Market Share by Company (2021-2026)
- 3.2 Global Semi-metallic Brake Pads Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Semi-metallic Brake Pads Revenue by Company (2021-2026)
 - 3.2.2 Global Semi-metallic Brake Pads Revenue Market Share by Company (2021-2026)
- 3.3 Global Semi-metallic Brake Pads Sale Price by Company
- 3.4 Key Manufacturers Semi-metallic Brake Pads Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Semi-metallic Brake Pads Product Location Distribution
 - 3.4.2 Players Semi-metallic Brake Pads Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis

- 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SEMI-METALLIC BRAKE PADS BY GEOGRAPHIC REGION

4.1 World Historic Semi-metallic Brake Pads Market Size by Geographic Region (2021-2026)

- 4.1.1 Global Semi-metallic Brake Pads Annual Sales by Geographic Region (2021-2026)
- 4.1.2 Global Semi-metallic Brake Pads Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Semi-metallic Brake Pads Market Size by Country/Region (2021-2026)

- 4.2.1 Global Semi-metallic Brake Pads Annual Sales by Country/Region (2021-2026)
- 4.2.2 Global Semi-metallic Brake Pads Annual Revenue by Country/Region (2021-2026)

- 4.3 Americas Semi-metallic Brake Pads Sales Growth
- 4.4 APAC Semi-metallic Brake Pads Sales Growth
- 4.5 Europe Semi-metallic Brake Pads Sales Growth
- 4.6 Middle East & Africa Semi-metallic Brake Pads Sales Growth

5 AMERICAS

5.1 Americas Semi-metallic Brake Pads Sales by Country

- 5.1.1 Americas Semi-metallic Brake Pads Sales by Country (2021-2026)
- 5.1.2 Americas Semi-metallic Brake Pads Revenue by Country (2021-2026)

5.2 Americas Semi-metallic Brake Pads Sales by Type (2021-2026)

5.3 Americas Semi-metallic Brake Pads Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Semi-metallic Brake Pads Sales by Region

- 6.1.1 APAC Semi-metallic Brake Pads Sales by Region (2021-2026)

- 6.1.2 APAC Semi-metallic Brake Pads Revenue by Region (2021-2026)
- 6.2 APAC Semi-metallic Brake Pads Sales by Type (2021-2026)
- 6.3 APAC Semi-metallic Brake Pads Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Semi-metallic Brake Pads by Country
 - 7.1.1 Europe Semi-metallic Brake Pads Sales by Country (2021-2026)
 - 7.1.2 Europe Semi-metallic Brake Pads Revenue by Country (2021-2026)
- 7.2 Europe Semi-metallic Brake Pads Sales by Type (2021-2026)
- 7.3 Europe Semi-metallic Brake Pads Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Semi-metallic Brake Pads by Country
 - 8.1.1 Middle East & Africa Semi-metallic Brake Pads Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Semi-metallic Brake Pads Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Semi-metallic Brake Pads Sales by Type (2021-2026)
- 8.3 Middle East & Africa Semi-metallic Brake Pads Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Semi-metallic Brake Pads

10.3 Manufacturing Process Analysis of Semi-metallic Brake Pads

10.4 Industry Chain Structure of Semi-metallic Brake Pads

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Semi-metallic Brake Pads Distributors

11.3 Semi-metallic Brake Pads Customer

12 WORLD FORECAST REVIEW FOR SEMI-METALLIC BRAKE PADS BY GEOGRAPHIC REGION

12.1 Global Semi-metallic Brake Pads Market Size Forecast by Region

12.1.1 Global Semi-metallic Brake Pads Forecast by Region (2027-2032)

12.1.2 Global Semi-metallic Brake Pads Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Semi-metallic Brake Pads Forecast by Type (2027-2032)

12.7 Global Semi-metallic Brake Pads Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 BOSCH

13.1.1 BOSCH Company Information

13.1.2 BOSCH Semi-metallic Brake Pads Product Portfolios and Specifications

13.1.3 BOSCH Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin

(2021-2026)

13.1.4 BOSCH Main Business Overview

13.1.5 BOSCH Latest Developments

13.2 TMD Friction Group

13.2.1 TMD Friction Group Company Information

13.2.2 TMD Friction Group Semi-metallic Brake Pads Product Portfolios and Specifications

13.2.3 TMD Friction Group Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 TMD Friction Group Main Business Overview

13.2.5 TMD Friction Group Latest Developments

13.3 Tenneco LLC

13.3.1 Tenneco LLC Company Information

13.3.2 Tenneco LLC Semi-metallic Brake Pads Product Portfolios and Specifications

13.3.3 Tenneco LLC Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Tenneco LLC Main Business Overview

13.3.5 Tenneco LLC Latest Developments

13.4 Akebono Brake Industry

13.4.1 Akebono Brake Industry Company Information

13.4.2 Akebono Brake Industry Semi-metallic Brake Pads Product Portfolios and Specifications

13.4.3 Akebono Brake Industry Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Akebono Brake Industry Main Business Overview

13.4.5 Akebono Brake Industry Latest Developments

13.5 Nisshinbo Brake

13.5.1 Nisshinbo Brake Company Information

13.5.2 Nisshinbo Brake Semi-metallic Brake Pads Product Portfolios and Specifications

13.5.3 Nisshinbo Brake Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Nisshinbo Brake Main Business Overview

13.5.5 Nisshinbo Brake Latest Developments

13.6 Frasle Mobility S.A.

13.6.1 Frasle Mobility S.A. Company Information

13.6.2 Frasle Mobility S.A. Semi-metallic Brake Pads Product Portfolios and Specifications

13.6.3 Frasle Mobility S.A. Semi-metallic Brake Pads Sales, Revenue, Price and

Gross Margin (2021-2026)

13.6.4 Frasle Mobility S.A. Main Business Overview

13.6.5 Frasle Mobility S.A. Latest Developments

13.7 Sangsin Brake

13.7.1 Sangsin Brake Company Information

13.7.2 Sangsin Brake Semi-metallic Brake Pads Product Portfolios and Specifications

13.7.3 Sangsin Brake Semi-metallic Brake Pads Sales, Revenue, Price and Gross

Margin (2021-2026)

13.7.4 Sangsin Brake Main Business Overview

13.7.5 Sangsin Brake Latest Developments

13.8 ADVICS

13.8.1 ADVICS Company Information

13.8.2 ADVICS Semi-metallic Brake Pads Product Portfolios and Specifications

13.8.3 ADVICS Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin

(2021-2026)

13.8.4 ADVICS Main Business Overview

13.8.5 ADVICS Latest Developments

13.9 ZF

13.9.1 ZF Company Information

13.9.2 ZF Semi-metallic Brake Pads Product Portfolios and Specifications

13.9.3 ZF Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin

(2021-2026)

13.9.4 ZF Main Business Overview

13.9.5 ZF Latest Developments

13.10 Brembo

13.10.1 Brembo Company Information

13.10.2 Brembo Semi-metallic Brake Pads Product Portfolios and Specifications

13.10.3 Brembo Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin

(2021-2026)

13.10.4 Brembo Main Business Overview

13.10.5 Brembo Latest Developments

13.11 Shandong Gold Phoenix

13.11.1 Shandong Gold Phoenix Company Information

13.11.2 Shandong Gold Phoenix Semi-metallic Brake Pads Product Portfolios and Specifications

13.11.3 Shandong Gold Phoenix Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Shandong Gold Phoenix Main Business Overview

13.11.5 Shandong Gold Phoenix Latest Developments

13.12 Shandong Xinyi Auto Parts Manufacturing

13.12.1 Shandong Xinyi Auto Parts Manufacturing Company Information

13.12.2 Shandong Xinyi Auto Parts Manufacturing Semi-metallic Brake Pads Product Portfolios and Specifications

13.12.3 Shandong Xinyi Auto Parts Manufacturing Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Shandong Xinyi Auto Parts Manufacturing Main Business Overview

13.12.5 Shandong Xinyi Auto Parts Manufacturing Latest Developments

13.13 Zhuhai Glory Friction Material

13.13.1 Zhuhai Glory Friction Material Company Information

13.13.2 Zhuhai Glory Friction Material Semi-metallic Brake Pads Product Portfolios and Specifications

13.13.3 Zhuhai Glory Friction Material Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Zhuhai Glory Friction Material Main Business Overview

13.13.5 Zhuhai Glory Friction Material Latest Developments

13.14 Rane Brake Lining Limited

13.14.1 Rane Brake Lining Limited Company Information

13.14.2 Rane Brake Lining Limited Semi-metallic Brake Pads Product Portfolios and Specifications

13.14.3 Rane Brake Lining Limited Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Rane Brake Lining Limited Main Business Overview

13.14.5 Rane Brake Lining Limited Latest Developments

13.15 Hindustan Composites Limited

13.15.1 Hindustan Composites Limited Company Information

13.15.2 Hindustan Composites Limited Semi-metallic Brake Pads Product Portfolios and Specifications

13.15.3 Hindustan Composites Limited Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Hindustan Composites Limited Main Business Overview

13.15.5 Hindustan Composites Limited Latest Developments

13.16 Sundaram Brake Linings Limited

13.16.1 Sundaram Brake Linings Limited Company Information

13.16.2 Sundaram Brake Linings Limited Semi-metallic Brake Pads Product Portfolios and Specifications

13.16.3 Sundaram Brake Linings Limited Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Sundaram Brake Linings Limited Main Business Overview

- 13.16.5 Sundaram Brake Linings Limited Latest Developments
- 13.17 ASK Automotive Limited
 - 13.17.1 ASK Automotive Limited Company Information
 - 13.17.2 ASK Automotive Limited Semi-metallic Brake Pads Product Portfolios and Specifications
 - 13.17.3 ASK Automotive Limited Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 ASK Automotive Limited Main Business Overview
 - 13.17.5 ASK Automotive Limited Latest Developments
- 13.18 ITT Corporation
 - 13.18.1 ITT Corporation Company Information
 - 13.18.2 ITT Corporation Semi-metallic Brake Pads Product Portfolios and Specifications
 - 13.18.3 ITT Corporation Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.18.4 ITT Corporation Main Business Overview
 - 13.18.5 ITT Corporation Latest Developments
- 13.19 Jiangsu Fangyi Friction Material
 - 13.19.1 Jiangsu Fangyi Friction Material Company Information
 - 13.19.2 Jiangsu Fangyi Friction Material Semi-metallic Brake Pads Product Portfolios and Specifications
 - 13.19.3 Jiangsu Fangyi Friction Material Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.19.4 Jiangsu Fangyi Friction Material Main Business Overview
 - 13.19.5 Jiangsu Fangyi Friction Material Latest Developments
- 13.20 MAT Friction Group
 - 13.20.1 MAT Friction Group Company Information
 - 13.20.2 MAT Friction Group Semi-metallic Brake Pads Product Portfolios and Specifications
 - 13.20.3 MAT Friction Group Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.20.4 MAT Friction Group Main Business Overview
 - 13.20.5 MAT Friction Group Latest Developments
- 13.21 Shandong Double Link Brake Material
 - 13.21.1 Shandong Double Link Brake Material Company Information
 - 13.21.2 Shandong Double Link Brake Material Semi-metallic Brake Pads Product Portfolios and Specifications
 - 13.21.3 Shandong Double Link Brake Material Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.21.4 Shandong Double Link Brake Material Main Business Overview
- 13.21.5 Shandong Double Link Brake Material Latest Developments
- 13.22 Zhejiang Lamda Technology
 - 13.22.1 Zhejiang Lamda Technology Company Information
 - 13.22.2 Zhejiang Lamda Technology Semi-metallic Brake Pads Product Portfolios and Specifications
 - 13.22.3 Zhejiang Lamda Technology Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.22.4 Zhejiang Lamda Technology Main Business Overview
 - 13.22.5 Zhejiang Lamda Technology Latest Developments
- 13.23 Hangzhou Annat Industry
 - 13.23.1 Hangzhou Annat Industry Company Information
 - 13.23.2 Hangzhou Annat Industry Semi-metallic Brake Pads Product Portfolios and Specifications
 - 13.23.3 Hangzhou Annat Industry Semi-metallic Brake Pads Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.23.4 Hangzhou Annat Industry Main Business Overview
 - 13.23.5 Hangzhou Annat Industry Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Semi-metallic Brake Pads Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Semi-metallic Brake Pads Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Steel Fiber Semi-Metallic Pads

Table 4. Major Players of Iron-Based Semi-Metallic Pads

Table 5. Major Players of Copper-Containing Semi-Metallic Pads

Table 6. Major Players of Others

Table 7. Global Semi-metallic Brake Pads Sales by Type (2021-2026) & (K Sets)

Table 8. Global Semi-metallic Brake Pads Sales Market Share by Type (2021-2026)

Table 9. Global Semi-metallic Brake Pads Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Semi-metallic Brake Pads Revenue Market Share by Type (2021-2026)

Table 11. Global Semi-metallic Brake Pads Sale Price by Type (2021-2026) & (US\$/Set)

Table 12. Major Players of OEM

Table 13. Major Players of Aftermarket

Table 14. Global Semi-metallic Brake Pads Sales by Sales Channel (2021-2026) & (K Sets)

Table 15. Global Semi-metallic Brake Pads Sales Market Share by Sales Channel (2021-2026)

Table 16. Global Semi-metallic Brake Pads Revenue by Sales Channel (2021-2026) & (\$ million)

Table 17. Global Semi-metallic Brake Pads Revenue Market Share by Sales Channel (2021-2026)

Table 18. Global Semi-metallic Brake Pads Sale Price by Sales Channel (2021-2026) & (US\$/Set)

Table 19. Major Players of Standard Semi-Metallic Pads

Table 20. Major Players of Heavy-Duty Semi-Metallic Pads

Table 21. Major Players of Others

Table 22. Global Semi-metallic Brake Pads Sales by Formulation (2021-2026) & (K Sets)

Table 23. Global Semi-metallic Brake Pads Sales Market Share by Formulation (2021-2026)

Table 24. Global Semi-metallic Brake Pads Revenue by Formulation (2021-2026) & (\$

million)

Table 25. Global Semi-metallic Brake Pads Revenue Market Share by Formulation (2021-2026)

Table 26. Global Semi-metallic Brake Pads Sale Price by Formulation (2021-2026) & (US\$/Set)

Table 27. Global Semi-metallic Brake Pads Sale by Application (2021-2026) & (K Sets)

Table 28. Global Semi-metallic Brake Pads Sale Market Share by Application (2021-2026)

Table 29. Global Semi-metallic Brake Pads Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Semi-metallic Brake Pads Revenue Market Share by Application (2021-2026)

Table 31. Global Semi-metallic Brake Pads Sale Price by Application (2021-2026) & (US\$/Set)

Table 32. Global Semi-metallic Brake Pads Sales by Company (2021-2026) & (K Sets)

Table 33. Global Semi-metallic Brake Pads Sales Market Share by Company (2021-2026)

Table 34. Global Semi-metallic Brake Pads Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Semi-metallic Brake Pads Revenue Market Share by Company (2021-2026)

Table 36. Global Semi-metallic Brake Pads Sale Price by Company (2021-2026) & (US\$/Set)

Table 37. Key Manufacturers Semi-metallic Brake Pads Producing Area Distribution and Sales Area

Table 38. Players Semi-metallic Brake Pads Products Offered

Table 39. Semi-metallic Brake Pads Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Semi-metallic Brake Pads Sales by Geographic Region (2021-2026) & (K Sets)

Table 43. Global Semi-metallic Brake Pads Sales Market Share Geographic Region (2021-2026)

Table 44. Global Semi-metallic Brake Pads Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Semi-metallic Brake Pads Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Semi-metallic Brake Pads Sales by Country/Region (2021-2026) & (K

Sets)

Table 47. Global Semi-metallic Brake Pads Sales Market Share by Country/Region (2021-2026)

Table 48. Global Semi-metallic Brake Pads Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Semi-metallic Brake Pads Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Semi-metallic Brake Pads Sales by Country (2021-2026) & (K Sets)

Table 51. Americas Semi-metallic Brake Pads Sales Market Share by Country (2021-2026)

Table 52. Americas Semi-metallic Brake Pads Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Semi-metallic Brake Pads Sales by Type (2021-2026) & (K Sets)

Table 54. Americas Semi-metallic Brake Pads Sales by Application (2021-2026) & (K Sets)

Table 55. APAC Semi-metallic Brake Pads Sales by Region (2021-2026) & (K Sets)

Table 56. APAC Semi-metallic Brake Pads Sales Market Share by Region (2021-2026)

Table 57. APAC Semi-metallic Brake Pads Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Semi-metallic Brake Pads Sales by Type (2021-2026) & (K Sets)

Table 59. APAC Semi-metallic Brake Pads Sales by Application (2021-2026) & (K Sets)

Table 60. Europe Semi-metallic Brake Pads Sales by Country (2021-2026) & (K Sets)

Table 61. Europe Semi-metallic Brake Pads Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Semi-metallic Brake Pads Sales by Type (2021-2026) & (K Sets)

Table 63. Europe Semi-metallic Brake Pads Sales by Application (2021-2026) & (K Sets)

Table 64. Middle East & Africa Semi-metallic Brake Pads Sales by Country (2021-2026) & (K Sets)

Table 65. Middle East & Africa Semi-metallic Brake Pads Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Semi-metallic Brake Pads Sales by Type (2021-2026) & (K Sets)

Table 67. Middle East & Africa Semi-metallic Brake Pads Sales by Application (2021-2026) & (K Sets)

Table 68. Key Market Drivers & Growth Opportunities of Semi-metallic Brake Pads

Table 69. Key Market Challenges & Risks of Semi-metallic Brake Pads

Table 70. Key Industry Trends of Semi-metallic Brake Pads

Table 71. Semi-metallic Brake Pads Raw Material

Table 72. Key Suppliers of Raw Materials
Table 73. Semi-metallic Brake Pads Distributors List
Table 74. Semi-metallic Brake Pads Customer List
Table 75. Global Semi-metallic Brake Pads Sales Forecast by Region (2027-2032) & (K Sets)
Table 76. Global Semi-metallic Brake Pads Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 77. Americas Semi-metallic Brake Pads Sales Forecast by Country (2027-2032) & (K Sets)
Table 78. Americas Semi-metallic Brake Pads Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 79. APAC Semi-metallic Brake Pads Sales Forecast by Region (2027-2032) & (K Sets)
Table 80. APAC Semi-metallic Brake Pads Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 81. Europe Semi-metallic Brake Pads Sales Forecast by Country (2027-2032) & (K Sets)
Table 82. Europe Semi-metallic Brake Pads Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 83. Middle East & Africa Semi-metallic Brake Pads Sales Forecast by Country (2027-2032) & (K Sets)
Table 84. Middle East & Africa Semi-metallic Brake Pads Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 85. Global Semi-metallic Brake Pads Sales Forecast by Type (2027-2032) & (K Sets)
Table 86. Global Semi-metallic Brake Pads Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 87. Global Semi-metallic Brake Pads Sales Forecast by Application (2027-2032) & (K Sets)
Table 88. Global Semi-metallic Brake Pads Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 89. BOSCH Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors
Table 90. BOSCH Semi-metallic Brake Pads Product Portfolios and Specifications
Table 91. BOSCH Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)
Table 92. BOSCH Main Business
Table 93. BOSCH Latest Developments
Table 94. TMD Friction Group Basic Information, Semi-metallic Brake Pads

Manufacturing Base, Sales Area and Its Competitors

Table 95. TMD Friction Group Semi-metallic Brake Pads Product Portfolios and Specifications

Table 96. TMD Friction Group Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 97. TMD Friction Group Main Business

Table 98. TMD Friction Group Latest Developments

Table 99. Tenneco LLC Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 100. Tenneco LLC Semi-metallic Brake Pads Product Portfolios and Specifications

Table 101. Tenneco LLC Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 102. Tenneco LLC Main Business

Table 103. Tenneco LLC Latest Developments

Table 104. Akebono Brake Industry Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 105. Akebono Brake Industry Semi-metallic Brake Pads Product Portfolios and Specifications

Table 106. Akebono Brake Industry Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 107. Akebono Brake Industry Main Business

Table 108. Akebono Brake Industry Latest Developments

Table 109. Nisshinbo Brake Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 110. Nisshinbo Brake Semi-metallic Brake Pads Product Portfolios and Specifications

Table 111. Nisshinbo Brake Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 112. Nisshinbo Brake Main Business

Table 113. Nisshinbo Brake Latest Developments

Table 114. Frasle Mobility S.A. Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 115. Frasle Mobility S.A. Semi-metallic Brake Pads Product Portfolios and Specifications

Table 116. Frasle Mobility S.A. Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 117. Frasle Mobility S.A. Main Business

Table 118. Frasle Mobility S.A. Latest Developments

Table 119. Sangsin Brake Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 120. Sangsin Brake Semi-metallic Brake Pads Product Portfolios and Specifications

Table 121. Sangsin Brake Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 122. Sangsin Brake Main Business

Table 123. Sangsin Brake Latest Developments

Table 124. ADVICS Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 125. ADVICS Semi-metallic Brake Pads Product Portfolios and Specifications

Table 126. ADVICS Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 127. ADVICS Main Business

Table 128. ADVICS Latest Developments

Table 129. ZF Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 130. ZF Semi-metallic Brake Pads Product Portfolios and Specifications

Table 131. ZF Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 132. ZF Main Business

Table 133. ZF Latest Developments

Table 134. Brembo Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 135. Brembo Semi-metallic Brake Pads Product Portfolios and Specifications

Table 136. Brembo Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 137. Brembo Main Business

Table 138. Brembo Latest Developments

Table 139. Shandong Gold Phoenix Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 140. Shandong Gold Phoenix Semi-metallic Brake Pads Product Portfolios and Specifications

Table 141. Shandong Gold Phoenix Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 142. Shandong Gold Phoenix Main Business

Table 143. Shandong Gold Phoenix Latest Developments

Table 144. Shandong Xinyi Auto Parts Manufacturing Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 145. Shandong Xinyi Auto Parts Manufacturing Semi-metallic Brake Pads Product Portfolios and Specifications

Table 146. Shandong Xinyi Auto Parts Manufacturing Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 147. Shandong Xinyi Auto Parts Manufacturing Main Business

Table 148. Shandong Xinyi Auto Parts Manufacturing Latest Developments

Table 149. Zhuhai Glory Friction Material Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 150. Zhuhai Glory Friction Material Semi-metallic Brake Pads Product Portfolios and Specifications

Table 151. Zhuhai Glory Friction Material Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 152. Zhuhai Glory Friction Material Main Business

Table 153. Zhuhai Glory Friction Material Latest Developments

Table 154. Rane Brake Lining Limited Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 155. Rane Brake Lining Limited Semi-metallic Brake Pads Product Portfolios and Specifications

Table 156. Rane Brake Lining Limited Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 157. Rane Brake Lining Limited Main Business

Table 158. Rane Brake Lining Limited Latest Developments

Table 159. Hindustan Composites Limited Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 160. Hindustan Composites Limited Semi-metallic Brake Pads Product Portfolios and Specifications

Table 161. Hindustan Composites Limited Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 162. Hindustan Composites Limited Main Business

Table 163. Hindustan Composites Limited Latest Developments

Table 164. Sundaram Brake Linings Limited Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 165. Sundaram Brake Linings Limited Semi-metallic Brake Pads Product Portfolios and Specifications

Table 166. Sundaram Brake Linings Limited Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 167. Sundaram Brake Linings Limited Main Business

Table 168. Sundaram Brake Linings Limited Latest Developments

Table 169. ASK Automotive Limited Basic Information, Semi-metallic Brake Pads

Manufacturing Base, Sales Area and Its Competitors

Table 170. ASK Automotive Limited Semi-metallic Brake Pads Product Portfolios and Specifications

Table 171. ASK Automotive Limited Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 172. ASK Automotive Limited Main Business

Table 173. ASK Automotive Limited Latest Developments

Table 174. ITT Corporation Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 175. ITT Corporation Semi-metallic Brake Pads Product Portfolios and Specifications

Table 176. ITT Corporation Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 177. ITT Corporation Main Business

Table 178. ITT Corporation Latest Developments

Table 179. Jiangsu Fangyi Friction Material Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 180. Jiangsu Fangyi Friction Material Semi-metallic Brake Pads Product Portfolios and Specifications

Table 181. Jiangsu Fangyi Friction Material Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 182. Jiangsu Fangyi Friction Material Main Business

Table 183. Jiangsu Fangyi Friction Material Latest Developments

Table 184. MAT Friction Group Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 185. MAT Friction Group Semi-metallic Brake Pads Product Portfolios and Specifications

Table 186. MAT Friction Group Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 187. MAT Friction Group Main Business

Table 188. MAT Friction Group Latest Developments

Table 189. Shandong Double Link Brake Material Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 190. Shandong Double Link Brake Material Semi-metallic Brake Pads Product Portfolios and Specifications

Table 191. Shandong Double Link Brake Material Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 192. Shandong Double Link Brake Material Main Business

Table 193. Shandong Double Link Brake Material Latest Developments

Table 194. Zhejiang Lamda Technology Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 195. Zhejiang Lamda Technology Semi-metallic Brake Pads Product Portfolios and Specifications

Table 196. Zhejiang Lamda Technology Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 197. Zhejiang Lamda Technology Main Business

Table 198. Zhejiang Lamda Technology Latest Developments

Table 199. Hangzhou Annat Industry Basic Information, Semi-metallic Brake Pads Manufacturing Base, Sales Area and Its Competitors

Table 200. Hangzhou Annat Industry Semi-metallic Brake Pads Product Portfolios and Specifications

Table 201. Hangzhou Annat Industry Semi-metallic Brake Pads Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 202. Hangzhou Annat Industry Main Business

Table 203. Hangzhou Annat Industry Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Semi-metallic Brake Pads
- Figure 2. Semi-metallic Brake Pads Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Semi-metallic Brake Pads Sales Growth Rate 2021-2032 (K Sets)
- Figure 7. Global Semi-metallic Brake Pads Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Semi-metallic Brake Pads Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Semi-metallic Brake Pads Sales Market Share by Country/Region (2025)
- Figure 10. Semi-metallic Brake Pads Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Steel Fiber Semi-Metallic Pads
- Figure 12. Product Picture of Iron-Based Semi-Metallic Pads
- Figure 13. Product Picture of Copper-Containing Semi-Metallic Pads
- Figure 14. Product Picture of Others
- Figure 15. Global Semi-metallic Brake Pads Sales Market Share by Type in 2026
- Figure 16. Global Semi-metallic Brake Pads Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of OEM
- Figure 18. Product Picture of Aftermarket
- Figure 19. Global Semi-metallic Brake Pads Sales Market Share by Sales Channel in 2026
- Figure 20. Global Semi-metallic Brake Pads Revenue Market Share by Sales Channel (2021-2026)
- Figure 21. Product Picture of Standard Semi-Metallic Pads
- Figure 22. Product Picture of Heavy-Duty Semi-Metallic Pads
- Figure 23. Product Picture of Others
- Figure 24. Global Semi-metallic Brake Pads Sales Market Share by Formulation in 2026
- Figure 25. Global Semi-metallic Brake Pads Revenue Market Share by Formulation (2021-2026)
- Figure 26. Semi-metallic Brake Pads Consumed in Passenger Cars
- Figure 27. Global Semi-metallic Brake Pads Market: Passenger Cars (2021-2026) & (K Sets)

- Figure 28. Semi-metallic Brake Pads Consumed in Commercial Vehicles
- Figure 29. Global Semi-metallic Brake Pads Market: Commercial Vehicles (2021-2026) & (K Sets)
- Figure 30. Semi-metallic Brake Pads Consumed in Motorcycles
- Figure 31. Global Semi-metallic Brake Pads Market: Motorcycles (2021-2026) & (K Sets)
- Figure 32. Semi-metallic Brake Pads Consumed in Others
- Figure 33. Global Semi-metallic Brake Pads Market: Others (2021-2026) & (K Sets)
- Figure 34. Global Semi-metallic Brake Pads Sale Market Share by Application (2025)
- Figure 35. Global Semi-metallic Brake Pads Revenue Market Share by Application in 2025
- Figure 36. Semi-metallic Brake Pads Sales by Company in 2025 (K Sets)
- Figure 37. Global Semi-metallic Brake Pads Sales Market Share by Company in 2025
- Figure 38. Semi-metallic Brake Pads Revenue by Company in 2025 (\$ millions)
- Figure 39. Global Semi-metallic Brake Pads Revenue Market Share by Company in 2025
- Figure 40. Global Semi-metallic Brake Pads Sales Market Share by Geographic Region (2021-2026)
- Figure 41. Global Semi-metallic Brake Pads Revenue Market Share by Geographic Region in 2025
- Figure 42. Americas Semi-metallic Brake Pads Sales 2021-2026 (K Sets)
- Figure 43. Americas Semi-metallic Brake Pads Revenue 2021-2026 (\$ millions)
- Figure 44. APAC Semi-metallic Brake Pads Sales 2021-2026 (K Sets)
- Figure 45. APAC Semi-metallic Brake Pads Revenue 2021-2026 (\$ millions)
- Figure 46. Europe Semi-metallic Brake Pads Sales 2021-2026 (K Sets)
- Figure 47. Europe Semi-metallic Brake Pads Revenue 2021-2026 (\$ millions)
- Figure 48. Middle East & Africa Semi-metallic Brake Pads Sales 2021-2026 (K Sets)
- Figure 49. Middle East & Africa Semi-metallic Brake Pads Revenue 2021-2026 (\$ millions)
- Figure 50. Americas Semi-metallic Brake Pads Sales Market Share by Country in 2025
- Figure 51. Americas Semi-metallic Brake Pads Revenue Market Share by Country (2021-2026)
- Figure 52. Americas Semi-metallic Brake Pads Sales Market Share by Type (2021-2026)
- Figure 53. Americas Semi-metallic Brake Pads Sales Market Share by Application (2021-2026)
- Figure 54. United States Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Canada Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 56. Mexico Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 57. Brazil Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 58. APAC Semi-metallic Brake Pads Sales Market Share by Region in 2025

Figure 59. APAC Semi-metallic Brake Pads Revenue Market Share by Region (2021-2026)

Figure 60. APAC Semi-metallic Brake Pads Sales Market Share by Type (2021-2026)

Figure 61. APAC Semi-metallic Brake Pads Sales Market Share by Application (2021-2026)

Figure 62. China Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 63. Japan Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 64. South Korea Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 65. Southeast Asia Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 66. India Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 67. Australia Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 68. China Taiwan Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 69. Europe Semi-metallic Brake Pads Sales Market Share by Country in 2025

Figure 70. Europe Semi-metallic Brake Pads Revenue Market Share by Country (2021-2026)

Figure 71. Europe Semi-metallic Brake Pads Sales Market Share by Type (2021-2026)

Figure 72. Europe Semi-metallic Brake Pads Sales Market Share by Application (2021-2026)

Figure 73. Germany Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 74. France Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 75. UK Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 76. Italy Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 77. Russia Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 78. Middle East & Africa Semi-metallic Brake Pads Sales Market Share by Country (2021-2026)

Figure 79. Middle East & Africa Semi-metallic Brake Pads Sales Market Share by Type (2021-2026)

Figure 80. Middle East & Africa Semi-metallic Brake Pads Sales Market Share by Application (2021-2026)

Figure 81. Egypt Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 82. South Africa Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 83. Israel Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 84. Turkey Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 85. GCC Countries Semi-metallic Brake Pads Revenue Growth 2021-2026 (\$ millions)

Figure 86. Manufacturing Cost Structure Analysis of Semi-metallic Brake Pads in 2026

Figure 87. Manufacturing Process Analysis of Semi-metallic Brake Pads

Figure 88. Industry Chain Structure of Semi-metallic Brake Pads

Figure 89. Channels of Distribution

Figure 90. Global Semi-metallic Brake Pads Sales Market Forecast by Region (2027-2032)

Figure 91. Global Semi-metallic Brake Pads Revenue Market Share Forecast by Region (2027-2032)

Figure 92. Global Semi-metallic Brake Pads Sales Market Share Forecast by Type (2027-2032)

Figure 93. Global Semi-metallic Brake Pads Revenue Market Share Forecast by Type (2027-2032)

Figure 94. Global Semi-metallic Brake Pads Sales Market Share Forecast by Application (2027-2032)

Figure 95. Global Semi-metallic Brake Pads Revenue Market Share Forecast by Application (2027-2032)

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