

Global Paper Based Friction Material Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G569D3C27D68EN.html>

Date: August 2026

Pages: 122

Price: US\$ 4,480.00 (Single User License)

ID: G569D3C27D68EN

Abstracts

The global Paper Based Friction Material market size is expected to reach \$ 3167 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Paper-based friction materials are porous composite friction materials made from cellulose fibers, aramid fibers, mineral fibers, phenolic resin, rubber, graphite, friction modifiers and fillers through papermaking, impregnation, curing, bonding, hot pressing and precision finishing. They are usually bonded to steel cores or clutch plates and operate in ATF, hydraulic oil or lubricating oil. Their key function is to provide stable torque transfer, clutch engagement, energy absorption and wear control in wet clutches, automatic transmissions, CVT, DCT, DHT, torque-converter lock-up clutches, construction machinery wet brakes, agricultural drivetrains, forklifts and industrial wet transmission systems.

In 2025, global paper-based friction materials production reached approximately 1.9 billion units, with an average global market price is \$1.1 per unit.

Paper-based friction material is a friction-functional material made from a fiber-based paper substrate impregnated and cured with resin, fillers, friction modifiers, reinforcing fibers, and functional additives. It is mainly used in automatic transmissions, wet dual-clutch transmissions, hybrid transmissions, torque-converter lock-up clutches, CVT launch clutches, all-wheel-drive couplings, limited-slip differentials, wet brakes, and selected industrial wet clutch or brake systems. The material is usually not a standalone finished component; instead, it serves as the friction material layer bonded to a steel core plate or carrier and is further processed into wet friction plates, clutch discs, or brake plates.

In terms of performance characteristics, paper-based friction material offers high porosity, good oil absorption, compressibility, permeability, tunable friction behavior, smooth engagement, and strong high-volume manufacturing consistency. It is especially suitable for operation in lubricating oil or automatic transmission fluid. During engagement, it transmits torque, executes shifts, provides lock-up, or performs braking under the combined effects of oil film, contact pressure, and speed difference, while converting sliding energy into heat that is absorbed by the friction material, steel plate, and oil.

By application, paper-based friction material is mainly used in automotive AT clutch and brake packs, wet DCT clutch packs, dedicated hybrid transmissions, torque-converter lock-up clutches, CVT launch clutches, transfer cases, all-wheel-drive torque-management systems, and limited-slip differentials. Compared with carbon-based friction materials, paper-based materials usually offer stronger advantages in cost efficiency, friction-tuning flexibility, and high-volume manufacturing. Compared with non-woven materials, paper-based materials benefit from more mature formulations, broader supply-chain support, and deeper application experience.

From a material-design perspective, the performance of paper-based friction material depends not only on fiber substrate, resin system, fillers, and friction modifiers, but also on pore structure, compression recovery, oil permeability, heat resistance, wear resistance, and fade control. In real applications, it must be matched with steel-plate surface roughness, automatic transmission fluid chemistry, groove structure, engagement pressure, friction energy, operating temperature, and electronic control strategy.

From an industry perspective, demand for paper-based friction material is mainly driven by automatic transmissions, wet dual-clutch transmissions, hybrid drivetrains, intelligent all-wheel-drive systems, and high-efficiency transmission systems. As ATs move toward more speeds, higher efficiency, and higher torque density, and as hybrid and plug-in hybrid systems require compact multi-plate structures, frequent engagement, and precise control, paper-based friction materials will continue to evolve toward higher energy density, lower drag, reduced judder, higher heat resistance, lower wear, longer life, and stronger fluid compatibility.

This report studies the global Paper Based Friction Material production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Paper Based Friction Material total production and demand, 2021-2032, (K Units)

Global Paper Based Friction Material total production value, 2021-2032, (USD Million)

Global Paper Based Friction Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Paper Based Friction Material consumption by region & country, CAGR, 2021-2032 & (K Units)

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

Global Paper Based Friction Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Paper Based Friction Material production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Paper Based Friction Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Paper Based 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 Dynax, BorgWarner, Aisin Corporation, F.C.C., Miba AG, NSK Warner, Carlisle Brake & Friction, Jiangsu Lintex Advanced Materials, Zhejiang Kema Friction Materials, Alto Products Corp., 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 Paper Based Friction Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Paper Based Friction Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Paper Based Friction Material Market, Segmentation by Type:

Glass Fiber

Aramid Fiber

Carbon Fiber

Others

Global Paper Based Friction Material Market, Segmentation by Drivetrain System:

Automatic Transmission(AT)

Dual-Clutch Transmission(DCT)

Continuously Variable Transmission(CVT)

Dedicated Hybrid Transmission(DHT)

Others

Global Paper Based Friction Material Market, Segmentation by Sales Channel:

OEM

Aftermarket

Global Paper Based Friction Material Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Others

Companies Profiled:

Dynax

BorgWarner

Aisin Corporation

F.C.C.

Miba AG

NSK Warner

Carlisle Brake & Friction

Jiangsu Lintex Advanced Materials

Zhejiang Kema Friction Materials

Alto Products Corp.

Raybestos Powertrain

Key Questions Answered:

1. How big is the global Paper Based Friction Material market?
2. What is the demand of the global Paper Based Friction Material market?
3. What is the year over year growth of the global Paper Based Friction Material market?
4. What is the production and production value of the global Paper Based Friction Material market?
5. Who are the key producers in the global Paper Based Friction Material market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Paper Based Friction Material Introduction
- 1.2 World Paper Based Friction Material Supply & Forecast
 - 1.2.1 World Paper Based Friction Material Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Paper Based Friction Material Production (2021-2032)
 - 1.2.3 World Paper Based Friction Material Pricing Trends (2021-2032)
- 1.3 World Paper Based Friction Material Production by Region (Based on Production Site)
 - 1.3.1 World Paper Based Friction Material Production Value by Region (2021-2032)
 - 1.3.2 World Paper Based Friction Material Production by Region (2021-2032)
 - 1.3.3 World Paper Based Friction Material Average Price by Region (2021-2032)
 - 1.3.4 North America Paper Based Friction Material Production (2021-2032)
 - 1.3.5 Europe Paper Based Friction Material Production (2021-2032)
 - 1.3.6 China Paper Based Friction Material Production (2021-2032)
 - 1.3.7 Japan Paper Based Friction Material Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Paper Based Friction Material Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Paper Based Friction Material Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Paper Based Friction Material Demand (2021-2032)
- 2.2 World Paper Based Friction Material Consumption by Region
 - 2.2.1 World Paper Based Friction Material Consumption by Region (2021-2026)
 - 2.2.2 World Paper Based Friction Material Consumption Forecast by Region (2027-2032)
- 2.3 United States Paper Based Friction Material Consumption (2021-2032)
- 2.4 China Paper Based Friction Material Consumption (2021-2032)
- 2.5 Europe Paper Based Friction Material Consumption (2021-2032)
- 2.6 Japan Paper Based Friction Material Consumption (2021-2032)
- 2.7 South Korea Paper Based Friction Material Consumption (2021-2032)
- 2.8 ASEAN Paper Based Friction Material Consumption (2021-2032)
- 2.9 India Paper Based Friction Material Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Paper Based Friction Material Production Value by Manufacturer (2021-2026)
- 3.2 World Paper Based Friction Material Production by Manufacturer (2021-2026)
- 3.3 World Paper Based Friction Material Average Price by Manufacturer (2021-2026)
- 3.4 Paper Based Friction Material Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Paper Based Friction Material Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Paper Based Friction Material in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Paper Based Friction Material in 2025
- 3.6 Paper Based Friction Material Market: Overall Company Footprint Analysis
 - 3.6.1 Paper Based Friction Material Market: Region Footprint
 - 3.6.2 Paper Based Friction Material Market: Company Product Type Footprint
 - 3.6.3 Paper Based Friction Material Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Paper Based Friction Material Production Value Comparison
 - 4.1.1 United States VS China: Paper Based Friction Material Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Paper Based Friction Material Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Paper Based Friction Material Production Comparison
 - 4.2.1 United States VS China: Paper Based Friction Material Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Paper Based Friction Material Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Paper Based Friction Material Consumption Comparison
 - 4.3.1 United States VS China: Paper Based Friction Material Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Paper Based Friction Material Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Paper Based Friction Material Manufacturers and Market

Share, 2021-2026

4.4.1 United States Based Paper Based Friction Material Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Paper Based Friction Material Production Value (2021-2026)

4.4.3 United States Based Manufacturers Paper Based Friction Material Production (2021-2026)

4.5 China Based Paper Based Friction Material Manufacturers and Market Share

4.5.1 China Based Paper Based Friction Material Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Paper Based Friction Material Production Value (2021-2026)

4.5.3 China Based Manufacturers Paper Based Friction Material Production (2021-2026)

4.6 Rest of World Based Paper Based Friction Material Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Paper Based Friction Material Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Paper Based Friction Material Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Paper Based Friction Material Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Paper Based Friction Material Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Glass Fiber

5.2.2 Aramid Fiber

5.2.3 Carbon Fiber

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Paper Based Friction Material Production by Type (2021-2032)

5.3.2 World Paper Based Friction Material Production Value by Type (2021-2032)

5.3.3 World Paper Based Friction Material Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DRIVETRAIN SYSTEM

6.1 World Paper Based Friction Material Market Size Overview by Drivetrain System: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Drivetrain System

6.2.1 Automatic Transmission(AT)

6.2.2 Dual-Clutch Transmission(DCT)

6.2.3 Continuously Variable Transmission(CVT)

6.2.4 Dedicated Hybrid Transmission(DHT)

6.2.5 Others

6.3 Market Segment by Drivetrain System

6.3.1 World Paper Based Friction Material Production by Drivetrain System (2021-2032)

6.3.2 World Paper Based Friction Material Production Value by Drivetrain System (2021-2032)

6.3.3 World Paper Based Friction Material Average Price by Drivetrain System (2021-2032)

7 MARKET ANALYSIS BY SALES CHANNEL

7.1 World Paper Based Friction Material Market Size Overview by Sales Channel: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Sales Channel

7.2.1 OEM

7.2.2 Aftermarket

7.3 Market Segment by Sales Channel

7.3.1 World Paper Based Friction Material Production by Sales Channel (2021-2032)

7.3.2 World Paper Based Friction Material Production Value by Sales Channel (2021-2032)

7.3.3 World Paper Based Friction Material Average Price by Sales Channel (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Paper Based Friction Material Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Car

8.2.2 Commercial Vehicle

8.2.3 Others

8.3 Market Segment by Application

- 8.3.1 World Paper Based Friction Material Production by Application (2021-2032)
- 8.3.2 World Paper Based Friction Material Production Value by Application (2021-2032)
- 8.3.3 World Paper Based Friction Material Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Dynax

- 9.1.1 Dynax Details
- 9.1.2 Dynax Major Business
- 9.1.3 Dynax Paper Based Friction Material Product and Services
- 9.1.4 Dynax Paper Based Friction Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Dynax Recent Developments/Updates
- 9.1.6 Dynax Competitive Strengths & Weaknesses

9.2 BorgWarner

- 9.2.1 BorgWarner Details
- 9.2.2 BorgWarner Major Business
- 9.2.3 BorgWarner Paper Based Friction Material Product and Services
- 9.2.4 BorgWarner Paper Based Friction Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 BorgWarner Recent Developments/Updates
- 9.2.6 BorgWarner Competitive Strengths & Weaknesses

9.3 Aisin Corporation

- 9.3.1 Aisin Corporation Details
- 9.3.2 Aisin Corporation Major Business
- 9.3.3 Aisin Corporation Paper Based Friction Material Product and Services
- 9.3.4 Aisin Corporation Paper Based Friction Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Aisin Corporation Recent Developments/Updates
- 9.3.6 Aisin Corporation Competitive Strengths & Weaknesses

9.4 F.C.C.

- 9.4.1 F.C.C. Details
- 9.4.2 F.C.C. Major Business
- 9.4.3 F.C.C. Paper Based Friction Material Product and Services
- 9.4.4 F.C.C. Paper Based Friction Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 F.C.C. Recent Developments/Updates
- 9.4.6 F.C.C. Competitive Strengths & Weaknesses

9.5 Miba AG

9.5.1 Miba AG Details

9.5.2 Miba AG Major Business

9.5.3 Miba AG Paper Based Friction Material Product and Services

9.5.4 Miba AG Paper Based Friction Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Miba AG Recent Developments/Updates

9.5.6 Miba AG Competitive Strengths & Weaknesses

9.6 NSK Warner

9.6.1 NSK Warner Details

9.6.2 NSK Warner Major Business

9.6.3 NSK Warner Paper Based Friction Material Product and Services

9.6.4 NSK Warner Paper Based Friction Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 NSK Warner Recent Developments/Updates

9.6.6 NSK Warner Competitive Strengths & Weaknesses

9.7 Carlisle Brake & Friction

9.7.1 Carlisle Brake & Friction Details

9.7.2 Carlisle Brake & Friction Major Business

9.7.3 Carlisle Brake & Friction Paper Based Friction Material Product and Services

9.7.4 Carlisle Brake & Friction Paper Based Friction Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Carlisle Brake & Friction Recent Developments/Updates

9.7.6 Carlisle Brake & Friction Competitive Strengths & Weaknesses

9.8 Jiangsu Lintex Advanced Materials

9.8.1 Jiangsu Lintex Advanced Materials Details

9.8.2 Jiangsu Lintex Advanced Materials Major Business

9.8.3 Jiangsu Lintex Advanced Materials Paper Based Friction Material Product and Services

9.8.4 Jiangsu Lintex Advanced Materials Paper Based Friction Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Jiangsu Lintex Advanced Materials Recent Developments/Updates

9.8.6 Jiangsu Lintex Advanced Materials Competitive Strengths & Weaknesses

9.9 Zhejiang Kema Friction Materials

9.9.1 Zhejiang Kema Friction Materials Details

9.9.2 Zhejiang Kema Friction Materials Major Business

9.9.3 Zhejiang Kema Friction Materials Paper Based Friction Material Product and Services

9.9.4 Zhejiang Kema Friction Materials Paper Based Friction Material Production,

Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Zhejiang Kema Friction Materials Recent Developments/Updates

9.9.6 Zhejiang Kema Friction Materials Competitive Strengths & Weaknesses

9.10 Alto Products Corp.

9.10.1 Alto Products Corp. Details

9.10.2 Alto Products Corp. Major Business

9.10.3 Alto Products Corp. Paper Based Friction Material Product and Services

9.10.4 Alto Products Corp. Paper Based Friction Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Alto Products Corp. Recent Developments/Updates

9.10.6 Alto Products Corp. Competitive Strengths & Weaknesses

9.11 Raybestos Powertrain

9.11.1 Raybestos Powertrain Details

9.11.2 Raybestos Powertrain Major Business

9.11.3 Raybestos Powertrain Paper Based Friction Material Product and Services

9.11.4 Raybestos Powertrain Paper Based Friction Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Raybestos Powertrain Recent Developments/Updates

9.11.6 Raybestos Powertrain Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Paper Based Friction Material Industry Chain

10.2 Paper Based Friction Material Upstream Analysis

10.2.1 Paper Based Friction Material Core Raw Materials

10.2.2 Main Manufacturers of Paper Based Friction Material Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Paper Based Friction Material Production Mode

10.6 Paper Based Friction Material Procurement Model

10.7 Paper Based Friction Material Industry Sales Model and Sales Channels

10.7.1 Paper Based Friction Material Sales Model

10.7.2 Paper Based Friction Material Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Paper Based Friction Material Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Paper Based Friction Material Production Value by Region (2021-2026) & (USD Million)

Table 3. World Paper Based Friction Material Production Value by Region (2027-2032) & (USD Million)

Table 4. World Paper Based Friction Material Production Value Market Share by Region (2021-2026)

Table 5. World Paper Based Friction Material Production Value Market Share by Region (2027-2032)

Table 6. World Paper Based Friction Material Production by Region (2021-2026) & (K Units)

Table 7. World Paper Based Friction Material Production by Region (2027-2032) & (K Units)

Table 8. World Paper Based Friction Material Production Market Share by Region (2021-2026)

Table 9. World Paper Based Friction Material Production Market Share by Region (2027-2032)

Table 10. World Paper Based Friction Material Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Paper Based Friction Material Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Paper Based Friction Material Major Market Trends

Table 13. World Paper Based Friction Material Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Paper Based Friction Material Consumption by Region (2021-2026) & (K Units)

Table 15. World Paper Based Friction Material Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Paper Based Friction Material Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Paper Based Friction Material Producers in 2025

Table 18. World Paper Based Friction Material Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Paper Based Friction Material Producers in 2025

Table 20. World Paper Based Friction Material Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Paper Based Friction Material Company Evaluation Quadrant

Table 22. World Paper Based Friction Material Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Paper Based Friction Material Production Site of Key Manufacturer

Table 24. Paper Based Friction Material Market: Company Product Type Footprint

Table 25. Paper Based Friction Material Market: Company Product Application Footprint

Table 26. Paper Based Friction Material Competitive Factors

Table 27. Paper Based Friction Material New Entrant and Capacity Expansion Plans

Table 28. Paper Based Friction Material Mergers & Acquisitions Activity

Table 29. United States VS China Paper Based Friction Material Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Paper Based Friction Material Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Paper Based Friction Material Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Paper Based Friction Material Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Paper Based Friction Material Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Paper Based Friction Material Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Paper Based Friction Material Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Paper Based Friction Material Production Market Share (2021-2026)

Table 37. China Based Paper Based Friction Material Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Paper Based Friction Material Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Paper Based Friction Material Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Paper Based Friction Material Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Paper Based Friction Material Production Market

Share (2021-2026)

Table 42. Rest of World Based Paper Based Friction Material Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Paper Based Friction Material Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Paper Based Friction Material Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Paper Based Friction Material Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Paper Based Friction Material Production Market Share (2021-2026)

Table 47. World Paper Based Friction Material Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Paper Based Friction Material Production by Type (2021-2026) & (K Units)

Table 49. World Paper Based Friction Material Production by Type (2027-2032) & (K Units)

Table 50. World Paper Based Friction Material Production Value by Type (2021-2026) & (USD Million)

Table 51. World Paper Based Friction Material Production Value by Type (2027-2032) & (USD Million)

Table 52. World Paper Based Friction Material Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Paper Based Friction Material Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Paper Based Friction Material Production Value by Drivetrain System, (USD Million), 2021 & 2025 & 2032

Table 55. World Paper Based Friction Material Production by Drivetrain System (2021-2026) & (K Units)

Table 56. World Paper Based Friction Material Production by Drivetrain System (2027-2032) & (K Units)

Table 57. World Paper Based Friction Material Production Value by Drivetrain System (2021-2026) & (USD Million)

Table 58. World Paper Based Friction Material Production Value by Drivetrain System (2027-2032) & (USD Million)

Table 59. World Paper Based Friction Material Average Price by Drivetrain System (2021-2026) & (US\$/Unit)

Table 60. World Paper Based Friction Material Average Price by Drivetrain System (2027-2032) & (US\$/Unit)

Table 61. World Paper Based Friction Material Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Table 62. World Paper Based Friction Material Production by Sales Channel (2021-2026) & (K Units)

Table 63. World Paper Based Friction Material Production by Sales Channel (2027-2032) & (K Units)

Table 64. World Paper Based Friction Material Production Value by Sales Channel (2021-2026) & (USD Million)

Table 65. World Paper Based Friction Material Production Value by Sales Channel (2027-2032) & (USD Million)

Table 66. World Paper Based Friction Material Average Price by Sales Channel (2021-2026) & (US\$/Unit)

Table 67. World Paper Based Friction Material Average Price by Sales Channel (2027-2032) & (US\$/Unit)

Table 68. World Paper Based Friction Material Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Paper Based Friction Material Production by Application (2021-2026) & (K Units)

Table 70. World Paper Based Friction Material Production by Application (2027-2032) & (K Units)

Table 71. World Paper Based Friction Material Production Value by Application (2021-2026) & (USD Million)

Table 72. World Paper Based Friction Material Production Value by Application (2027-2032) & (USD Million)

Table 73. World Paper Based Friction Material Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Paper Based Friction Material Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Dynax Basic Information, Manufacturing Base and Competitors

Table 76. Dynax Major Business

Table 77. Dynax Paper Based Friction Material Product and Services

Table 78. Dynax Paper Based Friction Material Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Dynax Recent Developments/Updates

Table 80. Dynax Competitive Strengths & Weaknesses

Table 81. BorgWarner Basic Information, Manufacturing Base and Competitors

Table 82. BorgWarner Major Business

Table 83. BorgWarner Paper Based Friction Material Product and Services

Table 84. BorgWarner Paper Based Friction Material Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 85. BorgWarner Recent Developments/Updates

Table 86. BorgWarner Competitive Strengths & Weaknesses

Table 87. Aisin Corporation Basic Information, Manufacturing Base and Competitors

Table 88. Aisin Corporation Major Business

Table 89. Aisin Corporation Paper Based Friction Material Product and Services

Table 90. Aisin Corporation Paper Based Friction Material Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 91. Aisin Corporation Recent Developments/Updates

Table 92. Aisin Corporation Competitive Strengths & Weaknesses

Table 93. F.C.C. Basic Information, Manufacturing Base and Competitors

Table 94. F.C.C. Major Business

Table 95. F.C.C. Paper Based Friction Material Product and Services

Table 96. F.C.C. Paper Based Friction Material Production (K Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. F.C.C. Recent Developments/Updates

Table 98. F.C.C. Competitive Strengths & Weaknesses

Table 99. Miba AG Basic Information, Manufacturing Base and Competitors

Table 100. Miba AG Major Business

Table 101. Miba AG Paper Based Friction Material Product and Services

Table 102. Miba AG Paper Based Friction Material Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 103. Miba AG Recent Developments/Updates

Table 104. Miba AG Competitive Strengths & Weaknesses

Table 105. NSK Warner Basic Information, Manufacturing Base and Competitors

Table 106. NSK Warner Major Business

Table 107. NSK Warner Paper Based Friction Material Product and Services

Table 108. NSK Warner Paper Based Friction Material Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 109. NSK Warner Recent Developments/Updates

Table 110. NSK Warner Competitive Strengths & Weaknesses

Table 111. Carlisle Brake & Friction Basic Information, Manufacturing Base and
Competitors

Table 112. Carlisle Brake & Friction Major Business

Table 113. Carlisle Brake & Friction Paper Based Friction Material Product and Services

Table 114. Carlisle Brake & Friction Paper Based Friction Material Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Carlisle Brake & Friction Recent Developments/Updates

Table 116. Carlisle Brake & Friction Competitive Strengths & Weaknesses

Table 117. Jiangsu Lintex Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 118. Jiangsu Lintex Advanced Materials Major Business

Table 119. Jiangsu Lintex Advanced Materials Paper Based Friction Material Product and Services

Table 120. Jiangsu Lintex Advanced Materials Paper Based Friction Material Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Jiangsu Lintex Advanced Materials Recent Developments/Updates

Table 122. Jiangsu Lintex Advanced Materials Competitive Strengths & Weaknesses

Table 123. Zhejiang Kema Friction Materials Basic Information, Manufacturing Base and Competitors

Table 124. Zhejiang Kema Friction Materials Major Business

Table 125. Zhejiang Kema Friction Materials Paper Based Friction Material Product and Services

Table 126. Zhejiang Kema Friction Materials Paper Based Friction Material Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Zhejiang Kema Friction Materials Recent Developments/Updates

Table 128. Zhejiang Kema Friction Materials Competitive Strengths & Weaknesses

Table 129. Alto Products Corp. Basic Information, Manufacturing Base and Competitors

Table 130. Alto Products Corp. Major Business

Table 131. Alto Products Corp. Paper Based Friction Material Product and Services

Table 132. Alto Products Corp. Paper Based Friction Material Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Alto Products Corp. Recent Developments/Updates

Table 134. Alto Products Corp. Competitive Strengths & Weaknesses

Table 135. Raybestos Powertrain Basic Information, Manufacturing Base and Competitors

Table 136. Raybestos Powertrain Major Business

Table 137. Raybestos Powertrain Paper Based Friction Material Product and Services

Table 138. Raybestos Powertrain Paper Based Friction Material Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 139. Raybestos Powertrain Recent Developments/Updates

Table 140. Raybestos Powertrain Competitive Strengths & Weaknesses

Table 141. Global Key Players of Paper Based Friction Material Upstream (Raw Materials)

Table 142. Global Paper Based Friction Material Typical Customers

Table 143. Paper Based Friction Material Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Paper Based Friction Material Picture

Figure 2. World Paper Based Friction Material Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Paper Based Friction Material Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Paper Based Friction Material Production (2021-2032) & (K Units)

Figure 5. World Paper Based Friction Material Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Paper Based Friction Material Production Value Market Share by Region (2021-2032)

Figure 7. World Paper Based Friction Material Production Market Share by Region (2021-2032)

Figure 8. North America Paper Based Friction Material Production (2021-2032) & (K Units)

Figure 9. Europe Paper Based Friction Material Production (2021-2032) & (K Units)

Figure 10. China Paper Based Friction Material Production (2021-2032) & (K Units)

Figure 11. Japan Paper Based Friction Material Production (2021-2032) & (K Units)

Figure 12. Paper Based Friction Material Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Paper Based Friction Material Consumption (2021-2032) & (K Units)

Figure 15. World Paper Based Friction Material Consumption Market Share by Region (2021-2032)

Figure 16. United States Paper Based Friction Material Consumption (2021-2032) & (K Units)

Figure 17. China Paper Based Friction Material Consumption (2021-2032) & (K Units)

Figure 18. Europe Paper Based Friction Material Consumption (2021-2032) & (K Units)

Figure 19. Japan Paper Based Friction Material Consumption (2021-2032) & (K Units)

Figure 20. South Korea Paper Based Friction Material Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Paper Based Friction Material Consumption (2021-2032) & (K Units)

Figure 22. India Paper Based Friction Material Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Paper Based Friction Material by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Paper Based Friction Material Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Paper Based Friction

Material Markets in 2025

Figure 26. United States VS China: Paper Based Friction Material Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Paper Based Friction Material Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Paper Based Friction Material Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Paper Based Friction Material Production Market Share 2025

Figure 30. China Based Manufacturers Paper Based Friction Material Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Paper Based Friction Material Production Market Share 2025

Figure 32. World Paper Based Friction Material Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Paper Based Friction Material Production Value Market Share by Type in 2025

Figure 34. Glass Fiber

Figure 35. Aramid Fiber

Figure 36. Carbon Fiber

Figure 37. Others

Figure 38. World Paper Based Friction Material Production Market Share by Type (2021-2032)

Figure 39. World Paper Based Friction Material Production Value Market Share by Type (2021-2032)

Figure 40. World Paper Based Friction Material Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Paper Based Friction Material Production Value by Drivetrain System, (USD Million), 2021 & 2025 & 2032

Figure 42. World Paper Based Friction Material Production Value Market Share by Drivetrain System in 2025

Figure 43. Automatic Transmission(AT)

Figure 44. Dual-Clutch Transmission(DCT)

Figure 45. Continuously Variable Transmission(CVT)

Figure 46. Dedicated Hybrid Transmission(DHT)

Figure 47. Others

Figure 48. World Paper Based Friction Material Production Market Share by Drivetrain System (2021-2032)

Figure 49. World Paper Based Friction Material Production Value Market Share by

Drivetrain System (2021-2032)

Figure 50. World Paper Based Friction Material Average Price by Drivetrain System (2021-2032) & (US\$/Unit)

Figure 51. World Paper Based Friction Material Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Figure 52. World Paper Based Friction Material Production Value Market Share by Sales Channel in 2025

Figure 53. OEM

Figure 54. Aftermarket

Figure 55. World Paper Based Friction Material Production Market Share by Sales Channel (2021-2032)

Figure 56. World Paper Based Friction Material Production Value Market Share by Sales Channel (2021-2032)

Figure 57. World Paper Based Friction Material Average Price by Sales Channel (2021-2032) & (US\$/Unit)

Figure 58. World Paper Based Friction Material Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Paper Based Friction Material Production Value Market Share by Application in 2025

Figure 60. Passenger Car

Figure 61. Commercial Vehicle

Figure 62. Others

Figure 63. World Paper Based Friction Material Production Market Share by Application (2021-2032)

Figure 64. World Paper Based Friction Material Production Value Market Share by Application (2021-2032)

Figure 65. World Paper Based Friction Material Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Paper Based Friction Material Industry Chain

Figure 67. Paper Based Friction Material Procurement Model

Figure 68. Paper Based Friction Material Sales Model

Figure 69. Paper Based Friction Material Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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