

Global Sintered Metal Friction Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Sintered Metal Friction Materials market size is expected to reach \$ 2028 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

Sintered metal friction materials are high-performance friction materials made mainly from copper-based, iron-based, bronze-based, metal-ceramic or low-copper metal powders, combined with graphite, ceramic particles, abrasives, lubricants, friction modifiers and wear-resistant fillers. They are produced through powder mixing, pressing, high-temperature sintering, sizing and finishing, and are processed into brake pads, railway brake blocks, clutch plates, wet/dry friction plates, friction blocks and friction discs. Compared with organic, resin-based and conventional semi-metallic materials, sintered metal materials provide stronger fade resistance, wear durability and friction stability under high-temperature, high-speed, high-energy, wet, muddy, heavy-load and repeated-braking conditions. Downstream applications include motorcycles, rail transit, wind power, construction machinery, mining, agricultural machinery, industrial clutches, aerospace, marine and racing.

In 2025, global sintered metal friction materials production reached approximately 140 million pcs, with an average global market price is \$10 per pc.

Sintered metal friction materials are high-performance friction material systems made primarily from copper, iron, bronze, stainless steel, and other metallic powders, combined with graphite, ceramic particles, lubricants, abrasives, friction modifiers, and functional fillers. They are manufactured through powder mixing, pressing, high-temperature sintering, machining, and backing-plate bonding. Their key characteristics include high metallic content, strong thermal stability, good wear resistance, and high

load-carrying capability, allowing them to maintain relatively stable friction performance under high temperature, high load, high speed, frequent engagement, or severe braking conditions.

By material system, sintered metal friction materials can be segmented into copper-based sintered materials, iron-based sintered materials, bronze-based sintered materials, copper-iron composite sintered materials, low-copper or copper-free sintered materials, and high-performance composite sintered materials. Copper- and bronze-based materials typically offer strong thermal conductivity, friction stability, and compatibility with mating surfaces, making them common in motorcycle brake pads, high-speed railway brake pads, and high-performance braking applications. Iron-based materials offer advantages in strength, wear resistance, and cost, and are used in selected heavy-duty, industrial braking, and high-pressure friction-pair applications. Copper-iron composite and low-copper or copper-free systems are increasingly driven by environmental regulation, brake-dust control, and sustainable material requirements. In terms of applications, sintered metal friction materials are used in dry brakes, wet brakes, dry clutches, wet clutches, railway braking, motorcycle braking, wind turbine yaw or braking systems, construction machinery, mining machinery, agricultural machinery, marine equipment, and industrial drivetrains.

Compared with organic friction materials, paper-based wet friction materials, and resin-based systems, sintered metal friction materials are better suited to high energy density, high thermal cycling, high contact pressure, and long-life operating conditions. However, they must also balance noise, mating-disc wear, low-temperature braking feel, cost, and environmental compliance. Product performance depends not only on metallic powder formulation, but also on powder particle size, sintering temperature, porosity, lubricant-phase distribution, tribofilm formation, backing-plate bonding strength, mating material, working pressure, and heat dissipation conditions.

From an industry perspective, demand for sintered metal friction materials is mainly driven by high-performance motorcycles, railway transportation, wind power equipment, construction machinery, mining machinery, agricultural machinery, commercial vehicles, and industrial braking systems. As equipment moves toward higher speed, higher power, higher torque density, longer service life, and stronger safety requirements, sintered metal friction materials will continue to evolve toward stable high-temperature friction, lower wear, lower noise, lower dust, improved mating-disc compatibility, low-copper or copper-free formulations, and better adaptability to demanding operating conditions.

This report studies the global Sintered Metal Friction Materials production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Sintered Metal Friction Materials total production and demand, 2021-2032, (K Pcs)

Global Sintered Metal Friction Materials total production value, 2021-2032, (USD Million)

Global Sintered Metal Friction Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Sintered Metal Friction Materials consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Sintered Metal Friction Materials domestic production, consumption, key domestic manufacturers and share

Global Sintered Metal Friction Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Sintered Metal Friction Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Sintered Metal Friction Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Sintered Metal Friction Materials 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 Brembo, SBS Friction, EBC Brakes, Astemo, Industrias Galfer, DP Brakes, Ferodo, CL Brakes, Vesrah, Braking, 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 Sintered Metal Friction Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) 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 Sintered Metal Friction Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Sintered Metal Friction Materials Market, Segmentation by Type:

Copper-Based Sintered Materials

Iron-Based Sintered Materials

Others

Global Sintered Metal Friction Materials Market, Segmentation by Component Form:

Sintered Brake Pads

Railway Sintered Brake Pads

Industrial & Wind Sintered Brake Pads

Sintered Clutch Friction Discs

Others

Global Sintered Metal Friction Materials Market, Segmentation by Sales Channel:

OEM

Aftermarket

Global Sintered Metal Friction Materials Market, Segmentation by Application:

Motorcycles and Bicycles

Railway System

Industrial

Other

Companies Profiled:

Brembo

SBS Friction

EBC Brakes

Astemo

Industrias Galfer

DP Brakes

Ferodo

CL Brakes

Vesrah

Braking

Goldfren

Moto-Master

Newfren

Frenotecnica

Hangzhou Yongli Friction Material

Knorr-Bremse

Wabtec

Akebono Brake Industry

Tianyishangjia New Material

CRRC Qishuyan Institute

Flertex

Dawin Friction

Bosun

Tokai Carbon

Miba AG

KUMA Brakes

GMP Friction Products

Carlisle Brake & Friction

Tungaloy Corporation

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Sintered Metal Friction Materials Production Value by Manufacturer (2021-2026)
- 3.2 World Sintered Metal Friction Materials Production by Manufacturer (2021-2026)
- 3.3 World Sintered Metal Friction Materials Average Price by Manufacturer (2021-2026)
- 3.4 Sintered Metal Friction Materials Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Sintered Metal Friction Materials Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Sintered Metal Friction Materials in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Sintered Metal Friction Materials in 2025
- 3.6 Sintered Metal Friction Materials Market: Overall Company Footprint Analysis
 - 3.6.1 Sintered Metal Friction Materials Market: Region Footprint
 - 3.6.2 Sintered Metal Friction Materials Market: Company Product Type Footprint
 - 3.6.3 Sintered Metal Friction Materials 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: Sintered Metal Friction Materials Production Value Comparison
 - 4.1.1 United States VS China: Sintered Metal Friction Materials Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Sintered Metal Friction Materials Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Sintered Metal Friction Materials Production Comparison
 - 4.2.1 United States VS China: Sintered Metal Friction Materials Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Sintered Metal Friction Materials Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Sintered Metal Friction Materials Consumption Comparison
 - 4.3.1 United States VS China: Sintered Metal Friction Materials Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Sintered Metal Friction Materials Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Sintered Metal Friction Materials Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Sintered Metal Friction Materials Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Sintered Metal Friction Materials Production Value (2021-2026)

4.4.3 United States Based Manufacturers Sintered Metal Friction Materials Production (2021-2026)

4.5 China Based Sintered Metal Friction Materials Manufacturers and Market Share

4.5.1 China Based Sintered Metal Friction Materials Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Sintered Metal Friction Materials Production Value (2021-2026)

4.5.3 China Based Manufacturers Sintered Metal Friction Materials Production (2021-2026)

4.6 Rest of World Based Sintered Metal Friction Materials Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Sintered Metal Friction Materials Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Sintered Metal Friction Materials Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Sintered Metal Friction Materials Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Sintered Metal Friction Materials Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Copper-Based Sintered Materials

5.2.2 Iron-Based Sintered Materials

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Sintered Metal Friction Materials Production by Type (2021-2032)

5.3.2 World Sintered Metal Friction Materials Production Value by Type (2021-2032)

5.3.3 World Sintered Metal Friction Materials Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COMPONENT FORM

6.1 World Sintered Metal Friction Materials Market Size Overview by Component Form:
2021 VS 2025 VS 2032

6.2 Segment Introduction by Component Form

6.2.1 Sintered Brake Pads

6.2.2 Railway Sintered Brake Pads

6.2.3 Industrial & Wind Sintered Brake Pads

6.2.4 Sintered Clutch Friction Discs

6.2.5 Others

6.3 Market Segment by Component Form

6.3.1 World Sintered Metal Friction Materials Production by Component Form
(2021-2032)

6.3.2 World Sintered Metal Friction Materials Production Value by Component Form
(2021-2032)

6.3.3 World Sintered Metal Friction Materials Average Price by Component Form
(2021-2032)

7 MARKET ANALYSIS BY SALES CHANNEL

7.1 World Sintered Metal Friction Materials 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 Sintered Metal Friction Materials Production by Sales Channel
(2021-2032)

7.3.2 World Sintered Metal Friction Materials Production Value by Sales Channel
(2021-2032)

7.3.3 World Sintered Metal Friction Materials Average Price by Sales Channel
(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Sintered Metal Friction Materials Market Size Overview by Application: 2021
VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Motorcycles and Bicycles

8.2.2 Railway System

8.2.3 Industrial

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Sintered Metal Friction Materials Production by Application (2021-2032)

8.3.2 World Sintered Metal Friction Materials Production Value by Application (2021-2032)

8.3.3 World Sintered Metal Friction Materials Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Brembo

9.1.1 Brembo Details

9.1.2 Brembo Major Business

9.1.3 Brembo Sintered Metal Friction Materials Product and Services

9.1.4 Brembo Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Brembo Recent Developments/Updates

9.1.6 Brembo Competitive Strengths & Weaknesses

9.2 SBS Friction

9.2.1 SBS Friction Details

9.2.2 SBS Friction Major Business

9.2.3 SBS Friction Sintered Metal Friction Materials Product and Services

9.2.4 SBS Friction Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 SBS Friction Recent Developments/Updates

9.2.6 SBS Friction Competitive Strengths & Weaknesses

9.3 EBC Brakes

9.3.1 EBC Brakes Details

9.3.2 EBC Brakes Major Business

9.3.3 EBC Brakes Sintered Metal Friction Materials Product and Services

9.3.4 EBC Brakes Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 EBC Brakes Recent Developments/Updates

9.3.6 EBC Brakes Competitive Strengths & Weaknesses

9.4 Astemo

9.4.1 Astemo Details

9.4.2 Astemo Major Business

9.4.3 Astemo Sintered Metal Friction Materials Product and Services

9.4.4 Astemo Sintered Metal Friction Materials Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.4.5 Astemo Recent Developments/Updates

9.4.6 Astemo Competitive Strengths & Weaknesses

9.5 Industrias Galfer

9.5.1 Industrias Galfer Details

9.5.2 Industrias Galfer Major Business

9.5.3 Industrias Galfer Sintered Metal Friction Materials Product and Services

9.5.4 Industrias Galfer Sintered Metal Friction Materials Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.5.5 Industrias Galfer Recent Developments/Updates

9.5.6 Industrias Galfer Competitive Strengths & Weaknesses

9.6 DP Brakes

9.6.1 DP Brakes Details

9.6.2 DP Brakes Major Business

9.6.3 DP Brakes Sintered Metal Friction Materials Product and Services

9.6.4 DP Brakes Sintered Metal Friction Materials Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.6.5 DP Brakes Recent Developments/Updates

9.6.6 DP Brakes Competitive Strengths & Weaknesses

9.7 Ferodo

9.7.1 Ferodo Details

9.7.2 Ferodo Major Business

9.7.3 Ferodo Sintered Metal Friction Materials Product and Services

9.7.4 Ferodo Sintered Metal Friction Materials Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.7.5 Ferodo Recent Developments/Updates

9.7.6 Ferodo Competitive Strengths & Weaknesses

9.8 CL Brakes

9.8.1 CL Brakes Details

9.8.2 CL Brakes Major Business

9.8.3 CL Brakes Sintered Metal Friction Materials Product and Services

9.8.4 CL Brakes Sintered Metal Friction Materials Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.8.5 CL Brakes Recent Developments/Updates

9.8.6 CL Brakes Competitive Strengths & Weaknesses

9.9 Vesrah

9.9.1 Vesrah Details

9.9.2 Vesrah Major Business

9.9.3 Vesrah Sintered Metal Friction Materials Product and Services

9.9.4 Vesrah Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Vesrah Recent Developments/Updates

9.9.6 Vesrah Competitive Strengths & Weaknesses

9.10 Braking

9.10.1 Braking Details

9.10.2 Braking Major Business

9.10.3 Braking Sintered Metal Friction Materials Product and Services

9.10.4 Braking Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Braking Recent Developments/Updates

9.10.6 Braking Competitive Strengths & Weaknesses

9.11 Goldfren

9.11.1 Goldfren Details

9.11.2 Goldfren Major Business

9.11.3 Goldfren Sintered Metal Friction Materials Product and Services

9.11.4 Goldfren Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Goldfren Recent Developments/Updates

9.11.6 Goldfren Competitive Strengths & Weaknesses

9.12 Moto-Master

9.12.1 Moto-Master Details

9.12.2 Moto-Master Major Business

9.12.3 Moto-Master Sintered Metal Friction Materials Product and Services

9.12.4 Moto-Master Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Moto-Master Recent Developments/Updates

9.12.6 Moto-Master Competitive Strengths & Weaknesses

9.13 Newfren

9.13.1 Newfren Details

9.13.2 Newfren Major Business

9.13.3 Newfren Sintered Metal Friction Materials Product and Services

9.13.4 Newfren Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Newfren Recent Developments/Updates

9.13.6 Newfren Competitive Strengths & Weaknesses

9.14 Frenotecnica

9.14.1 Frenotecnica Details

9.14.2 Frenotecnica Major Business

- 9.14.3 Frenotecnica Sintered Metal Friction Materials Product and Services
- 9.14.4 Frenotecnica Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 Frenotecnica Recent Developments/Updates
- 9.14.6 Frenotecnica Competitive Strengths & Weaknesses
- 9.15 Hangzhou Yongli Friction Material
 - 9.15.1 Hangzhou Yongli Friction Material Details
 - 9.15.2 Hangzhou Yongli Friction Material Major Business
 - 9.15.3 Hangzhou Yongli Friction Material Sintered Metal Friction Materials Product and Services
 - 9.15.4 Hangzhou Yongli Friction Material Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Hangzhou Yongli Friction Material Recent Developments/Updates
 - 9.15.6 Hangzhou Yongli Friction Material Competitive Strengths & Weaknesses
- 9.16 Knorr-Bremse
 - 9.16.1 Knorr-Bremse Details
 - 9.16.2 Knorr-Bremse Major Business
 - 9.16.3 Knorr-Bremse Sintered Metal Friction Materials Product and Services
 - 9.16.4 Knorr-Bremse Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Knorr-Bremse Recent Developments/Updates
 - 9.16.6 Knorr-Bremse Competitive Strengths & Weaknesses
- 9.17 Wabtec
 - 9.17.1 Wabtec Details
 - 9.17.2 Wabtec Major Business
 - 9.17.3 Wabtec Sintered Metal Friction Materials Product and Services
 - 9.17.4 Wabtec Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Wabtec Recent Developments/Updates
 - 9.17.6 Wabtec Competitive Strengths & Weaknesses
- 9.18 Akebono Brake Industry
 - 9.18.1 Akebono Brake Industry Details
 - 9.18.2 Akebono Brake Industry Major Business
 - 9.18.3 Akebono Brake Industry Sintered Metal Friction Materials Product and Services
 - 9.18.4 Akebono Brake Industry Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Akebono Brake Industry Recent Developments/Updates
 - 9.18.6 Akebono Brake Industry Competitive Strengths & Weaknesses
- 9.19 Tianyishangjia New Material

- 9.19.1 Tianyishangjia New Material Details
- 9.19.2 Tianyishangjia New Material Major Business
- 9.19.3 Tianyishangjia New Material Sintered Metal Friction Materials Product and Services
- 9.19.4 Tianyishangjia New Material Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.19.5 Tianyishangjia New Material Recent Developments/Updates
- 9.19.6 Tianyishangjia New Material Competitive Strengths & Weaknesses
- 9.20 CRRC Qishuyan Institute
 - 9.20.1 CRRC Qishuyan Institute Details
 - 9.20.2 CRRC Qishuyan Institute Major Business
 - 9.20.3 CRRC Qishuyan Institute Sintered Metal Friction Materials Product and Services
 - 9.20.4 CRRC Qishuyan Institute Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 CRRC Qishuyan Institute Recent Developments/Updates
 - 9.20.6 CRRC Qishuyan Institute Competitive Strengths & Weaknesses
- 9.21 Flertex
 - 9.21.1 Flertex Details
 - 9.21.2 Flertex Major Business
 - 9.21.3 Flertex Sintered Metal Friction Materials Product and Services
 - 9.21.4 Flertex Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 Flertex Recent Developments/Updates
 - 9.21.6 Flertex Competitive Strengths & Weaknesses
- 9.22 Dawin Friction
 - 9.22.1 Dawin Friction Details
 - 9.22.2 Dawin Friction Major Business
 - 9.22.3 Dawin Friction Sintered Metal Friction Materials Product and Services
 - 9.22.4 Dawin Friction Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.22.5 Dawin Friction Recent Developments/Updates
 - 9.22.6 Dawin Friction Competitive Strengths & Weaknesses
- 9.23 Bosun
 - 9.23.1 Bosun Details
 - 9.23.2 Bosun Major Business
 - 9.23.3 Bosun Sintered Metal Friction Materials Product and Services
 - 9.23.4 Bosun Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.23.5 Bosun Recent Developments/Updates
- 9.23.6 Bosun Competitive Strengths & Weaknesses
- 9.24 Tokai Carbon
 - 9.24.1 Tokai Carbon Details
 - 9.24.2 Tokai Carbon Major Business
 - 9.24.3 Tokai Carbon Sintered Metal Friction Materials Product and Services
 - 9.24.4 Tokai Carbon Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.24.5 Tokai Carbon Recent Developments/Updates
 - 9.24.6 Tokai Carbon Competitive Strengths & Weaknesses
- 9.25 Miba AG
 - 9.25.1 Miba AG Details
 - 9.25.2 Miba AG Major Business
 - 9.25.3 Miba AG Sintered Metal Friction Materials Product and Services
 - 9.25.4 Miba AG Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.25.5 Miba AG Recent Developments/Updates
 - 9.25.6 Miba AG Competitive Strengths & Weaknesses
- 9.26 KUMA Brakes
 - 9.26.1 KUMA Brakes Details
 - 9.26.2 KUMA Brakes Major Business
 - 9.26.3 KUMA Brakes Sintered Metal Friction Materials Product and Services
 - 9.26.4 KUMA Brakes Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.26.5 KUMA Brakes Recent Developments/Updates
 - 9.26.6 KUMA Brakes Competitive Strengths & Weaknesses
- 9.27 GMP Friction Products
 - 9.27.1 GMP Friction Products Details
 - 9.27.2 GMP Friction Products Major Business
 - 9.27.3 GMP Friction Products Sintered Metal Friction Materials Product and Services
 - 9.27.4 GMP Friction Products Sintered Metal Friction Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.27.5 GMP Friction Products Recent Developments/Updates
 - 9.27.6 GMP Friction Products Competitive Strengths & Weaknesses
- 9.28 Carlisle Brake & Friction
 - 9.28.1 Carlisle Brake & Friction Details
 - 9.28.2 Carlisle Brake & Friction Major Business
 - 9.28.3 Carlisle Brake & Friction Sintered Metal Friction Materials Product and Services
 - 9.28.4 Carlisle Brake & Friction Sintered Metal Friction Materials Production, Price,

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

9.28.5 Carlisle Brake & Friction Recent Developments/Updates

9.28.6 Carlisle Brake & Friction Competitive Strengths & Weaknesses

9.29 Tungaloy Corporation

9.29.1 Tungaloy Corporation Details

9.29.2 Tungaloy Corporation Major Business

9.29.3 Tungaloy Corporation Sintered Metal Friction Materials Product and Services

9.29.4 Tungaloy Corporation Sintered Metal Friction Materials Production, Price,

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

9.29.5 Tungaloy Corporation Recent Developments/Updates

9.29.6 Tungaloy Corporation Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Sintered Metal Friction Materials Industry Chain

10.2 Sintered Metal Friction Materials Upstream Analysis

10.2.1 Sintered Metal Friction Materials Core Raw Materials

10.2.2 Main Manufacturers of Sintered Metal Friction Materials Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Sintered Metal Friction Materials Production Mode

10.6 Sintered Metal Friction Materials Procurement Model

10.7 Sintered Metal Friction Materials Industry Sales Model and Sales Channels

10.7.1 Sintered Metal Friction Materials Sales Model

10.7.2 Sintered Metal Friction Materials 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 Sintered Metal Friction Materials Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Sintered Metal Friction Materials Production Value by Region (2021-2026) & (USD Million)

Table 3. World Sintered Metal Friction Materials Production Value by Region (2027-2032) & (USD Million)

Table 4. World Sintered Metal Friction Materials Production Value Market Share by Region (2021-2026)

Table 5. World Sintered Metal Friction Materials Production Value Market Share by Region (2027-2032)

Table 6. World Sintered Metal Friction Materials Production by Region (2021-2026) & (K Pcs)

Table 7. World Sintered Metal Friction Materials Production by Region (2027-2032) & (K Pcs)

Table 8. World Sintered Metal Friction Materials Production Market Share by Region (2021-2026)

Table 9. World Sintered Metal Friction Materials Production Market Share by Region (2027-2032)

Table 10. World Sintered Metal Friction Materials Average Price by Region (2021-2026) & (US\$/Pc)

Table 11. World Sintered Metal Friction Materials Average Price by Region (2027-2032) & (US\$/Pc)

Table 12. Sintered Metal Friction Materials Major Market Trends

Table 13. World Sintered Metal Friction Materials Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)

Table 14. World Sintered Metal Friction Materials Consumption by Region (2021-2026) & (K Pcs)

Table 15. World Sintered Metal Friction Materials Consumption Forecast by Region (2027-2032) & (K Pcs)

Table 16. World Sintered Metal Friction Materials Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Sintered Metal Friction Materials Producers in 2025

Table 18. World Sintered Metal Friction Materials Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key Sintered Metal Friction Materials Producers in 2025

Table 20. World Sintered Metal Friction Materials Average Price by Manufacturer (2021-2026) & (US\$/Pc)

Table 21. Global Sintered Metal Friction Materials Company Evaluation Quadrant

Table 22. World Sintered Metal Friction Materials Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Sintered Metal Friction Materials Production Site of Key Manufacturer

Table 24. Sintered Metal Friction Materials Market: Company Product Type Footprint

Table 25. Sintered Metal Friction Materials Market: Company Product Application Footprint

Table 26. Sintered Metal Friction Materials Competitive Factors

Table 27. Sintered Metal Friction Materials New Entrant and Capacity Expansion Plans

Table 28. Sintered Metal Friction Materials Mergers & Acquisitions Activity

Table 29. United States VS China Sintered Metal Friction Materials Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Sintered Metal Friction Materials Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China Sintered Metal Friction Materials Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based Sintered Metal Friction Materials Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Sintered Metal Friction Materials Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Sintered Metal Friction Materials Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Sintered Metal Friction Materials Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers Sintered Metal Friction Materials Production Market Share (2021-2026)

Table 37. China Based Sintered Metal Friction Materials Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Sintered Metal Friction Materials Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Sintered Metal Friction Materials Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Sintered Metal Friction Materials Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers Sintered Metal Friction Materials Production Market Share (2021-2026)

Table 42. Rest of World Based Sintered Metal Friction Materials Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers Sintered Metal Friction Materials Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Sintered Metal Friction Materials Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers Sintered Metal Friction Materials Production Market Share (2021-2026)

Table 47. World Sintered Metal Friction Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Sintered Metal Friction Materials Production by Type (2021-2026) & (K Pcs)

Table 49. World Sintered Metal Friction Materials Production by Type (2027-2032) & (K Pcs)

Table 50. World Sintered Metal Friction Materials Production Value by Type (2021-2026) & (USD Million)

Table 51. World Sintered Metal Friction Materials Production Value by Type (2027-2032) & (USD Million)

Table 52. World Sintered Metal Friction Materials Average Price by Type (2021-2026) & (US\$/Pc)

Table 53. World Sintered Metal Friction Materials Average Price by Type (2027-2032) & (US\$/Pc)

Table 54. World Sintered Metal Friction Materials Production Value by Component Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Sintered Metal Friction Materials Production by Component Form (2021-2026) & (K Pcs)

Table 56. World Sintered Metal Friction Materials Production by Component Form (2027-2032) & (K Pcs)

Table 57. World Sintered Metal Friction Materials Production Value by Component Form (2021-2026) & (USD Million)

Table 58. World Sintered Metal Friction Materials Production Value by Component Form (2027-2032) & (USD Million)

Table 59. World Sintered Metal Friction Materials Average Price by Component Form (2021-2026) & (US\$/Pc)

Table 60. World Sintered Metal Friction Materials Average Price by Component Form

(2027-2032) & (US\$/Pc)

Table 61. World Sintered Metal Friction Materials Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Table 62. World Sintered Metal Friction Materials Production by Sales Channel (2021-2026) & (K Pcs)

Table 63. World Sintered Metal Friction Materials Production by Sales Channel (2027-2032) & (K Pcs)

Table 64. World Sintered Metal Friction Materials Production Value by Sales Channel (2021-2026) & (USD Million)

Table 65. World Sintered Metal Friction Materials Production Value by Sales Channel (2027-2032) & (USD Million)

Table 66. World Sintered Metal Friction Materials Average Price by Sales Channel (2021-2026) & (US\$/Pc)

Table 67. World Sintered Metal Friction Materials Average Price by Sales Channel (2027-2032) & (US\$/Pc)

Table 68. World Sintered Metal Friction Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Sintered Metal Friction Materials Production by Application (2021-2026) & (K Pcs)

Table 70. World Sintered Metal Friction Materials Production by Application (2027-2032) & (K Pcs)

Table 71. World Sintered Metal Friction Materials Production Value by Application (2021-2026) & (USD Million)

Table 72. World Sintered Metal Friction Materials Production Value by Application (2027-2032) & (USD Million)

Table 73. World Sintered Metal Friction Materials Average Price by Application (2021-2026) & (US\$/Pc)

Table 74. World Sintered Metal Friction Materials Average Price by Application (2027-2032) & (US\$/Pc)

Table 75. Brembo Basic Information, Manufacturing Base and Competitors

Table 76. Brembo Major Business

Table 77. Brembo Sintered Metal Friction Materials Product and Services

Table 78. Brembo Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Brembo Recent Developments/Updates

Table 80. Brembo Competitive Strengths & Weaknesses

Table 81. SBS Friction Basic Information, Manufacturing Base and Competitors

Table 82. SBS Friction Major Business

Table 83. SBS Friction Sintered Metal Friction Materials Product and Services

Table 84. SBS Friction Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. SBS Friction Recent Developments/Updates
Table 86. SBS Friction Competitive Strengths & Weaknesses
Table 87. EBC Brakes Basic Information, Manufacturing Base and Competitors
Table 88. EBC Brakes Major Business
Table 89. EBC Brakes Sintered Metal Friction Materials Product and Services
Table 90. EBC Brakes Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. EBC Brakes Recent Developments/Updates
Table 92. EBC Brakes Competitive Strengths & Weaknesses
Table 93. Astemo Basic Information, Manufacturing Base and Competitors
Table 94. Astemo Major Business
Table 95. Astemo Sintered Metal Friction Materials Product and Services
Table 96. Astemo Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Astemo Recent Developments/Updates
Table 98. Astemo Competitive Strengths & Weaknesses
Table 99. Industrias Galfer Basic Information, Manufacturing Base and Competitors
Table 100. Industrias Galfer Major Business
Table 101. Industrias Galfer Sintered Metal Friction Materials Product and Services
Table 102. Industrias Galfer Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Industrias Galfer Recent Developments/Updates
Table 104. Industrias Galfer Competitive Strengths & Weaknesses
Table 105. DP Brakes Basic Information, Manufacturing Base and Competitors
Table 106. DP Brakes Major Business
Table 107. DP Brakes Sintered Metal Friction Materials Product and Services
Table 108. DP Brakes Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. DP Brakes Recent Developments/Updates
Table 110. DP Brakes Competitive Strengths & Weaknesses
Table 111. Ferodo Basic Information, Manufacturing Base and Competitors
Table 112. Ferodo Major Business
Table 113. Ferodo Sintered Metal Friction Materials Product and Services
Table 114. Ferodo Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Ferodo Recent Developments/Updates
Table 116. Ferodo Competitive Strengths & Weaknesses

Table 117. CL Brakes Basic Information, Manufacturing Base and Competitors
Table 118. CL Brakes Major Business
Table 119. CL Brakes Sintered Metal Friction Materials Product and Services
Table 120. CL Brakes Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. CL Brakes Recent Developments/Updates
Table 122. CL Brakes Competitive Strengths & Weaknesses
Table 123. Vesrah Basic Information, Manufacturing Base and Competitors
Table 124. Vesrah Major Business
Table 125. Vesrah Sintered Metal Friction Materials Product and Services
Table 126. Vesrah Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Vesrah Recent Developments/Updates
Table 128. Vesrah Competitive Strengths & Weaknesses
Table 129. Braking Basic Information, Manufacturing Base and Competitors
Table 130. Braking Major Business
Table 131. Braking Sintered Metal Friction Materials Product and Services
Table 132. Braking Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Braking Recent Developments/Updates
Table 134. Braking Competitive Strengths & Weaknesses
Table 135. Goldfren Basic Information, Manufacturing Base and Competitors
Table 136. Goldfren Major Business
Table 137. Goldfren Sintered Metal Friction Materials Product and Services
Table 138. Goldfren Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Goldfren Recent Developments/Updates
Table 140. Goldfren Competitive Strengths & Weaknesses
Table 141. Moto-Master Basic Information, Manufacturing Base and Competitors
Table 142. Moto-Master Major Business
Table 143. Moto-Master Sintered Metal Friction Materials Product and Services
Table 144. Moto-Master Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Moto-Master Recent Developments/Updates
Table 146. Moto-Master Competitive Strengths & Weaknesses
Table 147. Newfren Basic Information, Manufacturing Base and Competitors
Table 148. Newfren Major Business
Table 149. Newfren Sintered Metal Friction Materials Product and Services
Table 150. Newfren Sintered Metal Friction Materials Production (K Pcs), Price

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

Table 151. Newfren Recent Developments/Updates

Table 152. Newfren Competitive Strengths & Weaknesses

Table 153. Frenotecnica Basic Information, Manufacturing Base and Competitors

Table 154. Frenotecnica Major Business

Table 155. Frenotecnica Sintered Metal Friction Materials Product and Services

Table 156. Frenotecnica Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Frenotecnica Recent Developments/Updates

Table 158. Frenotecnica Competitive Strengths & Weaknesses

Table 159. Hangzhou Yongli Friction Material Basic Information, Manufacturing Base and Competitors

Table 160. Hangzhou Yongli Friction Material Major Business

Table 161. Hangzhou Yongli Friction Material Sintered Metal Friction Materials Product and Services

Table 162. Hangzhou Yongli Friction Material Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Hangzhou Yongli Friction Material Recent Developments/Updates

Table 164. Hangzhou Yongli Friction Material Competitive Strengths & Weaknesses

Table 165. Knorr-Bremse Basic Information, Manufacturing Base and Competitors

Table 166. Knorr-Bremse Major Business

Table 167. Knorr-Bremse Sintered Metal Friction Materials Product and Services

Table 168. Knorr-Bremse Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Knorr-Bremse Recent Developments/Updates

Table 170. Knorr-Bremse Competitive Strengths & Weaknesses

Table 171. Wabtec Basic Information, Manufacturing Base and Competitors

Table 172. Wabtec Major Business

Table 173. Wabtec Sintered Metal Friction Materials Product and Services

Table 174. Wabtec Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Wabtec Recent Developments/Updates

Table 176. Wabtec Competitive Strengths & Weaknesses

Table 177. Akebono Brake Industry Basic Information, Manufacturing Base and Competitors

Table 178. Akebono Brake Industry Major Business

Table 179. Akebono Brake Industry Sintered Metal Friction Materials Product and Services

Table 180. Akebono Brake Industry Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Akebono Brake Industry Recent Developments/Updates

Table 182. Akebono Brake Industry Competitive Strengths & Weaknesses

Table 183. Tianyishangjia New Material Basic Information, Manufacturing Base and Competitors

Table 184. Tianyishangjia New Material Major Business

Table 185. Tianyishangjia New Material Sintered Metal Friction Materials Product and Services

Table 186. Tianyishangjia New Material Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Tianyishangjia New Material Recent Developments/Updates

Table 188. Tianyishangjia New Material Competitive Strengths & Weaknesses

Table 189. CRRC Qishuyan Institute Basic Information, Manufacturing Base and Competitors

Table 190. CRRC Qishuyan Institute Major Business

Table 191. CRRC Qishuyan Institute Sintered Metal Friction Materials Product and Services

Table 192. CRRC Qishuyan Institute Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. CRRC Qishuyan Institute Recent Developments/Updates

Table 194. CRRC Qishuyan Institute Competitive Strengths & Weaknesses

Table 195. Flertex Basic Information, Manufacturing Base and Competitors

Table 196. Flertex Major Business

Table 197. Flertex Sintered Metal Friction Materials Product and Services

Table 198. Flertex Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Flertex Recent Developments/Updates

Table 200. Flertex Competitive Strengths & Weaknesses

Table 201. Dawin Friction Basic Information, Manufacturing Base and Competitors

Table 202. Dawin Friction Major Business

Table 203. Dawin Friction Sintered Metal Friction Materials Product and Services

Table 204. Dawin Friction Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. Dawin Friction Recent Developments/Updates

Table 206. Dawin Friction Competitive Strengths & Weaknesses

Table 207. Bosun Basic Information, Manufacturing Base and Competitors
Table 208. Bosun Major Business
Table 209. Bosun Sintered Metal Friction Materials Product and Services
Table 210. Bosun Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 211. Bosun Recent Developments/Updates
Table 212. Bosun Competitive Strengths & Weaknesses
Table 213. Tokai Carbon Basic Information, Manufacturing Base and Competitors
Table 214. Tokai Carbon Major Business
Table 215. Tokai Carbon Sintered Metal Friction Materials Product and Services
Table 216. Tokai Carbon Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 217. Tokai Carbon Recent Developments/Updates
Table 218. Tokai Carbon Competitive Strengths & Weaknesses
Table 219. Miba AG Basic Information, Manufacturing Base and Competitors
Table 220. Miba AG Major Business
Table 221. Miba AG Sintered Metal Friction Materials Product and Services
Table 222. Miba AG Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 223. Miba AG Recent Developments/Updates
Table 224. Miba AG Competitive Strengths & Weaknesses
Table 225. KUMA Brakes Basic Information, Manufacturing Base and Competitors
Table 226. KUMA Brakes Major Business
Table 227. KUMA Brakes Sintered Metal Friction Materials Product and Services
Table 228. KUMA Brakes Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 229. KUMA Brakes Recent Developments/Updates
Table 230. KUMA Brakes Competitive Strengths & Weaknesses
Table 231. GMP Friction Products Basic Information, Manufacturing Base and Competitors
Table 232. GMP Friction Products Major Business
Table 233. GMP Friction Products Sintered Metal Friction Materials Product and Services
Table 234. GMP Friction Products Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 235. GMP Friction Products Recent Developments/Updates
Table 236. GMP Friction Products Competitive Strengths & Weaknesses
Table 237. Carlisle Brake & Friction Basic Information, Manufacturing Base and

Competitors

Table 238. Carlisle Brake & Friction Major Business

Table 239. Carlisle Brake & Friction Sintered Metal Friction Materials Product and Services

Table 240. Carlisle Brake & Friction Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 241. Carlisle Brake & Friction Recent Developments/Updates

Table 242. Carlisle Brake & Friction Competitive Strengths & Weaknesses

Table 243. Tungaloy Corporation Basic Information, Manufacturing Base and Competitors

Table 244. Tungaloy Corporation Major Business

Table 245. Tungaloy Corporation Sintered Metal Friction Materials Product and Services

Table 246. Tungaloy Corporation Sintered Metal Friction Materials Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 247. Tungaloy Corporation Recent Developments/Updates

Table 248. Tungaloy Corporation Competitive Strengths & Weaknesses

Table 249. Global Key Players of Sintered Metal Friction Materials Upstream (Raw Materials)

Table 250. Global Sintered Metal Friction Materials Typical Customers

Table 251. Sintered Metal Friction Materials Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Sintered Metal Friction Materials Picture

Figure 2. World Sintered Metal Friction Materials Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Sintered Metal Friction Materials Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Sintered Metal Friction Materials Production (2021-2032) & (K Pcs)

Figure 5. World Sintered Metal Friction Materials Average Price (2021-2032) & (US\$/Pc)

Figure 6. World Sintered Metal Friction Materials Production Value Market Share by Region (2021-2032)

Figure 7. World Sintered Metal Friction Materials Production Market Share by Region (2021-2032)

Figure 8. North America Sintered Metal Friction Materials Production (2021-2032) & (K Pcs)

Figure 9. Europe Sintered Metal Friction Materials Production (2021-2032) & (K Pcs)

Figure 10. China Sintered Metal Friction Materials Production (2021-2032) & (K Pcs)

Figure 11. Japan Sintered Metal Friction Materials Production (2021-2032) & (K Pcs)

Figure 12. Sintered Metal Friction Materials Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Sintered Metal Friction Materials Consumption (2021-2032) & (K Pcs)

Figure 15. World Sintered Metal Friction Materials Consumption Market Share by Region (2021-2032)

Figure 16. United States Sintered Metal Friction Materials Consumption (2021-2032) & (K Pcs)

Figure 17. China Sintered Metal Friction Materials Consumption (2021-2032) & (K Pcs)

Figure 18. Europe Sintered Metal Friction Materials Consumption (2021-2032) & (K Pcs)

Figure 19. Japan Sintered Metal Friction Materials Consumption (2021-2032) & (K Pcs)

Figure 20. South Korea Sintered Metal Friction Materials Consumption (2021-2032) & (K Pcs)

Figure 21. ASEAN Sintered Metal Friction Materials Consumption (2021-2032) & (K Pcs)

Figure 22. India Sintered Metal Friction Materials Consumption (2021-2032) & (K Pcs)

Figure 23. Producer Shipments of Sintered Metal Friction Materials by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Sintered Metal Friction Materials Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Sintered Metal Friction Materials Markets in 2025

Figure 26. United States VS China: Sintered Metal Friction Materials Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Sintered Metal Friction Materials Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Sintered Metal Friction Materials Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Sintered Metal Friction Materials Production Market Share 2025

Figure 30. China Based Manufacturers Sintered Metal Friction Materials Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Sintered Metal Friction Materials Production Market Share 2025

Figure 32. World Sintered Metal Friction Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Sintered Metal Friction Materials Production Value Market Share by Type in 2025

Figure 34. Copper-Based Sintered Materials

Figure 35. Iron-Based Sintered Materials

Figure 36. Others

Figure 37. World Sintered Metal Friction Materials Production Market Share by Type (2021-2032)

Figure 38. World Sintered Metal Friction Materials Production Value Market Share by Type (2021-2032)

Figure 39. World Sintered Metal Friction Materials Average Price by Type (2021-2032) & (US\$/Pc)

Figure 40. World Sintered Metal Friction Materials Production Value by Component Form, (USD Million), 2021 & 2025 & 2032

Figure 41. World Sintered Metal Friction Materials Production Value Market Share by Component Form in 2025

Figure 42. Sintered Brake Pads

Figure 43. Railway Sintered Brake Pads

Figure 44. Industrial & Wind Sintered Brake Pads

Figure 45. Sintered Clutch Friction Discs

Figure 46. Others

Figure 47. World Sintered Metal Friction Materials Production Market Share by

Component Form (2021-2032)

Figure 48. World Sintered Metal Friction Materials Production Value Market Share by Component Form (2021-2032)

Figure 49. World Sintered Metal Friction Materials Average Price by Component Form (2021-2032) & (US\$/Pc)

Figure 50. World Sintered Metal Friction Materials Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Figure 51. World Sintered Metal Friction Materials Production Value Market Share by Sales Channel in 2025

Figure 52. OEM

Figure 53. Aftermarket

Figure 54. World Sintered Metal Friction Materials Production Market Share by Sales Channel (2021-2032)

Figure 55. World Sintered Metal Friction Materials Production Value Market Share by Sales Channel (2021-2032)

Figure 56. World Sintered Metal Friction Materials Average Price by Sales Channel (2021-2032) & (US\$/Pc)

Figure 57. World Sintered Metal Friction Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Sintered Metal Friction Materials Production Value Market Share by Application in 2025

Figure 59. Motorcycles and Bicycles

Figure 60. Railway System

Figure 61. Industrial

Figure 62. Other

Figure 63. World Sintered Metal Friction Materials Production Market Share by Application (2021-2032)

Figure 64. World Sintered Metal Friction Materials Production Value Market Share by Application (2021-2032)

Figure 65. World Sintered Metal Friction Materials Average Price by Application (2021-2032) & (US\$/Pc)

Figure 66. Sintered Metal Friction Materials Industry Chain

Figure 67. Sintered Metal Friction Materials Procurement Model

Figure 68. Sintered Metal Friction Materials Sales Model

Figure 69. Sintered Metal Friction Materials Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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