

Global Markets for Friction Products and Materials

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Abstracts

REPORT SCOPE

The scope of this report is comprehensive, covering the present status of and future prospects for OE/aftermarket friction materials and products in North America (i.e., the United States and Canada), Western Europe, Japan, China, India and other global markets. The North American market is covered in the greatest detail. The report covers diverse segments such as light vehicles, medium%li%and heavy-duty trucks, the automotive aftermarket, aircraft/aerospace, construction and other off-road equipment and various industrial applications. These segments are analyzed in detail as are technology developments, market conditions and opportunities, and five-year forecasts. The role of new technologies is reviewed in this comprehensive report.

In order to generate the information necessary to construct a reasonable future market for friction materials, it is necessary to undertake an examination of the advantages and disadvantages of the various types of materials. In particular, environmental concerns are very significant for some types of friction materials. This report covers two types of friction materials:

Dry friction materials such as non-asbestos organic (NAO), semi-metallic, low-metallic and asbestos friction materials.

Wet-friction materials such as paper products.

In addition to various friction materials and products, the report also covers the many issues concerning the merits and future prospects of the business, including corporate strategies, technologies and the means for providing these products and service offerings. It also covers in detail the social, political, regulatory and economic issues that so many regard as critical to the industry's current state of change. The report provides

a review of the friction materials and products industry and its structure, and the many companies involved in providing these materials and technologies. The competitive position of the main players in the market and the strategic options they face are also discussed, as well as competitive factors such as marketing, distribution and operations.

The values presented in the forecast tables represent the value of the friction products purchased by the OE manufacturers and other industrial companies. These measure value at the point of apparent consumption, regardless of where the friction product was manufactured. For materials, the values represent those paid by the friction product manufacturers. The volume data represent the consumption of these materials by the friction product manufacturers at the point of manufacture for these products, regardless of where the product is sold and used.

REPORT INCLUDES:

42 data tables and 34 additional tables

An overview of the global market for friction products and materials within the industry

Analyses of market trends with data from 2017, estimates for 2018 and projections of compound annual growth rates (CAGRs) through 2023

Discussion of applications of friction products and materials in light vehicles, medium and heavy-duty trucks, aircraft, and other industrial applications

Analysis of potential business opportunities in the future market

Coverage of two type of friction materials — dry friction materials such as non-asbestos organic (NAO), semi-metallic, low-metallic and asbestos friction materials, and wet-friction materials such as paper products

Critical analysis of the changing regulatory environment along with recent regulations regarding manufacturing and supplying of friction products and materials

Examination of vendor landscape and company profiles of major market players

including ABS Friction Corp., H-E Parts International, European Friction Industries (EFI) Ltd., Hindustan Composites Ltd., and Japan Brake Industrial Co. Ltd.

Contents

CHAPTER 1 INTRODUCTION

Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
Related BCC Research Reports

CHAPTER 2 SUMMARY AND HIGHLIGHTS

CHAPTER 3 TECHNOLOGICAL, REGULATORY AND ECONOMIC ENVIRONMENT

Overview
History of Friction Products and Materials
What Is a Friction Material?
The Science of Friction
Temperature Variation of the Frictional Coefficient
Testing
Production of Friction Materials
Soft Batch
Molding
Truck Block
Curing
Bonding
Scorching
Integrally Molded Brakes
Brake Ingredients
Fibers in Composites
Emphasis on Reducing Costs
Emerging Technologies
Regulatory Considerations
Health Aspects of Asbestos
History of Asbestos Legislation
Use of Asbestos in Materials

Regulations Dealing with the Environment
Regulations Concerning the Transportation Industries
Role of Trade Associations
Asbestos Litigation and Liability

CHAPTER 4 MARKET BREAKDOWN BY TYPE OF FRICTION MATERIALS

Overview
Friction Products Construction
Dry Friction Products
Wet Friction Products
Aramid Fibers
Glass Fibers
Metal Fibers
Carbon Fibers
Other Advanced Fibers
Metal Matrix Composite Fibers
Partially Oxidized Polyacrylonitrile (POA) Fibers
Other Advanced Fibers
Asbestos Fibers
Phenolic Resins
Graphitic Material
Wollastonite
Other Materials

CHAPTER 5 FRICTION PRODUCTS AND MARKETS

Overview
Truck Dry Friction Products
Truck Industry Dynamics
Truck Brake Selection
Truck Brake Friction Materials
Clutch Facings
Medium Truck Brakes
Heavy Duty Trucks
Outlook
Suppliers
Automotive Dry Friction Products
Brief History of Friction Products in Automobiles

Dynamics of Automotive Braking
Types of Brakes
Automotive Brake Outlook
Automotive Aftermarket in Brake Pads
Automotive Brake Suppliers
Aviation/Aerospace Dry Friction
Brake Construction
Aerospace Market Dynamics
Market Outlook
Suppliers
Industrial Dry Friction
Railways
Oil Wells
Construction Machinery
Appliances
Industrial Machinery
Wet Friction
Automotive Wet Friction
Construction Wet Friction
Other Wet Friction
Automotive Clutches

CHAPTER 6 INTERNATIONAL MARKETS

Overview
North America
Western Europe
Japan
China
India
Rest of the World

CHAPTER 7 INDUSTRY STRUCTURE AND STRATEGIC CHANGES

Overview
Industry Historical Development
Research and Development and the Role of Innovation
Technological Strategies
Funding of Research and Development

University Research Centers
Future of Research and Development in Friction Materials
Manufacturing Strategies
Scale Economies and Vertical Integration
Labor
Cost Structure
Financial Performance
Marketing
Pricing and Bargaining Power
Market Segmentation
Differentiation Strategies
Relations with OEM Customers
Global Marketing
Distribution
Other Marketing
Other Considerations
Types of Companies
Concentration
Consolidation

CHAPTER 8 COMPANY PROFILES

North American Companies
ABS FRICTION CORP.
ALL FRICTIONS CO.
ALTO PRODUCTS CORP.
AUSCO PRODUCTS INC.
BORGWARNER INC.
CARLISLE BRAKE AND FRICTION
CECO FRICTION PRODUCTS INC.
CHAMPION TECHNOLOGIES INC.
CLEVELAND OAK INC.
COOK BONDING & MANUFACTURING CO. INC.
DANA INC.
EATON AIRFLEX
FDP BRAKES
FEDERAL-MOGUL CORP.
FEROTEC FRICTION
FORMSPRAG CLUTCH

GMP FRICTION PRODUCTS
GREAT LAKES FRICTION PRODUCT INC.
HAWKHEAD AUTOMOTIVE INC.
H-E PARTS INTERNATIONAL
HIBBING INTERNATIONAL FRICTION
HITCO CARBON COMPOSITES INC.
INDUSTRIAL BRAKE & SUPPLY
ITT CORP.
LOGAN CLUTCH CORP.
MACH III CLUTCH INC.
MATERIAL SCIENCES CORP.
MEGGITT AIRCRAFT BRAKING SYSTEMS
MERITOR INC.
MIDWEST BRAKE
NUCAP INDUSTRIES INC.
OE QUALITY FRICTION INC.
PERFORMANCE FRICTION CORP.
PHOENIX FRICTION PRODUCTS INC.
PROTEC FRICTION GROUP
PT TECH
QUALITOR INC.
REDDAWAY MANUFACTURING CO. INC.
REXNORD INDUSTRIAL SERVICES
THE ROWLAND CO.
SCAN-PAC MANUFACTURING INC.
SEPAC INC.
STARFIRE SYSTEMS INC.
TEK-MOTIVE INC.
THERMOSET FRICTION MATERIAL SPECIALISTS
TRIBCO INC.
UTC AEROSPACE SYSTEMS
WABTEC CORP.
WESTROCK CO.
WHEELING BRAKE AND CLUTCH
ZF TRW AUTOMOTIVE
Western European Companies
BECORIT GMBH
ROBERT BOSCH GMBH
BREMBO S.P.A.

BREMSKERL REIBBELAGWERKE EMMERLING GMBH & CO. KG
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EUROPEAN FRICTION INDUSTRIES LTD.
FENNER PRECISION
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HALDEX AB
ICER BRAKES S.A.
INDUSTRIAL CLUTCH PARTS LTD.
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LUK GMBH & CO. OHG
MESSIER-BUGATTI-DOWTY
METELLI SPA
MIBA AG
ORTLINGHAUS-WERKE GMBH
ROULUNDS BRAKING HOLDINGS APS
SGL CARBON SE
SIMER SRL
STS FRICTION GMBH
TARONI & C. S.A.S.
TMD FRICTION HOLDING GMBH
UTIL GROUP
WINNARD LTD.
Japanese Companies
ADVICS CO. LTD.
AISIN SEIKI CO. LTD.
AKEBONO BRAKE INDUSTRY CO. LTD.
ASKTECHNICA CO. LTD.
FUJI BRAKE INDUSTRY CO. LTD.
HOSEI BRAKE INDUSTRY CO. LTD.
JAPAN BRAKE INDUSTRIAL CO. LTD.
MK KASHIYAMA CORP.
NISSHINBO HOLDINGS INC.
VESRAH CO. INC.
Chinese Companies
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DONGYING XINYI AUTO FITTING CO. LTD.
FANGTIAN INDUSTRIES CO. LTD.

FUJIAN GUANLEAN AUTOMOTIVE PARTS INDUSTRY CO. LTD.
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HANGZHOU FEIYANG AUTOPARTS CO. LTD.
HANGZHOU HANGCHENG FRICTION MATERIAL CO. LTD.
HANGZHOU QIANJIANG FRICTION MATERIAL CO. LTD.
HANGZHOU FEIYING AUTO PARTS CO. LTD.
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SHANDONG DOUBLE LINK BRAKE MATERIAL CO. LTD.
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AVS BRAKE LININGS PVT. LTD.
BIC AUTO PVT LTD.
BRAKEWEL AUTOMOTIVE COMPONENTS INDIA LTD.
CO-EFF FRICTION BANDS LTD.
HINDUSTAN COMPOSITES LTD.
MASU BRAKES PVT. LTD.
RANE BRAKE LINING LTD.
SUNDARAM BRAKE LININGS LTD.
SUPER CIRCLE AUTO LTD.

Other Companies

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EGAR S.A.
FBK AUTOMOTIVE COMPONENTS MALAYSIA SDN BHD
FERMIT S.A.
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FRENO SA
FRICCION S.R.L.
FRICCION Y TECNOLOGIA S.A. DE C.V.
GUNG LUN ENTERPRISE CO. LTD.
HUAN DAH INTERNATIONAL CO. LTD.
INCOLBESTOS S.A.
INDUBAL S.A.C.

KOREA BERAL CO. LTD.
LUMAG SP. Z.O.O.
MAMUSA
MINTYE INDUSTRIES BHD.
NAN HOANG TRAFFIC INSTRUMENT CO. LTD.
REPUESTOS COLOMBIANOS S.A.
SB SANGSIN BRAKE
S.C.H. INDUSTRY CO. LTD.
TAIWAN BRAKE TECHNOLOGY CORP.
ZF SACHS SLOVAKIA A.S.

List Of Tables

LIST OF TABLES

Summary Table: Global Friction Products Market Outlook, by Sector, Through 2023

Table 1: Reasons Why the Friction Materials Industry Showed Little Change before the Mid-1960s

Table 2: Reasons Why the Friction Materials Industry Changed in the Mid-1960s

Table 3: Typical Composition of NAO Friction Materials

Table 4: Products That Cannot Contain Asbestos

Table 5: Products That Can Still Contain Asbestos

Table 6: Global Market for Friction Materials, by Type, Through 2023

Table 7: Global Market Volume for Friction Materials, by Type, Through 2023

Table 8: Comparison of the Four Types of Dry Friction Products

Table 9: Composition of a Typical NAO Friction Material

Table 10: Comparison of Fibers Used in NAO Brake Pads

Table 11: Advantages and Disadvantages of NAO Brake Pads and Blocks

Table 12: Typical Ingredients in a Semi-metallic Brake Pad

Table 13: Differences between Ordinary Semi-metallic Pads and Heavy-duty Semi-metallic Pads

Table 14: Advantages and Disadvantages of Semi-metallic Friction Products Compared with NAO Friction Products

Table 15: Typical Ingredients in a Low-metallic Brake Pad

Table 16: Advantages and Disadvantages of Low-metallic Friction Products

Table 17: Market Share of Types of Materials Used as Friction Modifiers

Table 18: Commonly Used Raw Materials in Paper-based Friction Products

Table 19: Advantages and Disadvantages of Wet Paper Friction Materials Compared with Dry Friction Products

Table 20: Reasons Why Wet Friction Materials Are More Durable than Dry Friction Products

Table 21: Reasons Why the Wet Paper Friction Products Market Should Not Increase Significantly

Table 22: Reasons Why Sintered Metal Friction Products Are Not Used in Truck Braking Applications

Table 23: Advantages and Disadvantages of Aramid Fiber in Friction Products

Table 24: Reasons for Not Using Additional Aramid Fiber in Friction Materials

Table 25: Global Market Outlook for Aramid Fibers in Friction Products, by Region, Through 2023

Table 26: Advantages and Disadvantages of E-Glass in Friction Products

- Table 27: Disadvantages of the Smoothness of E-Glass Fiber
- Table 28: Global Market for Glass Fibers in Friction Products, by Region, Through 2023
- Table 29: Global Market Outlook for Metal Fibers in Friction Products, by Region, Through 2023
- Table 30: Advantages and Disadvantages of Carbon-Carbon Composites
- Table 31: Global Market Outlook for Carbon Fibers in Friction Products, by Region, Through 2023
- Table 32: Global Market Outlook for MMC Fibers in Friction Products, by Region, Through 2023
- Table 33: Global Market Outlook for POA Fibers in Friction Products, by Country/Region, Through 2023
- Table 34: Global Market Outlook for Other Advanced Fibers in Friction Products, by Region, Through 2023
- Table 35: Properties of Asbestos Fibers
- Table 36: Composition of a Typical Asbestos-based Friction Material
- Table 37: Global Market Outlook for Asbestos Fibers in Friction Products, by Region, Through 2023
- Table 38: Advantages and Disadvantages of Phenolic Resins
- Table 39: Global Market Outlook for Phenolic Resins in Friction Products, by Region, Through 2023
- Table 40: Global Market Outlook for Graphite in Friction Products, by Region, Through 2023
- Table 41: Global Outlook for Wollastonite in Friction Products by Region, Through 2023
- Table 42: Global Outlook for Other Materials in Friction Products by Material and Region, Through 2023
- Table 43: Global Friction Products Application Markets, by Type, Through 2023
- Table 44: Applications of Friction Materials Used in Trucks
- Table 45: Problems with Available Friction Materials for Medium Truck Drum Brakes
- Table 46: Friction Materials Used in Medium Truck Applications
- Table 47: Global Market for Dry Friction Materials in Medium-and Heavy-duty Trucks, by Material and Region, Through 2023
- Table 48: Factors Necessitating Improvement in Automobile Brakes
- Table 49: Automobile Buyers Requirements for Brakes
- Table 50: Reasons Why Brake Pads Cause Noise
- Table 51: Comparison of Disc vs. Drum Brakes
- Table 52: Distribution of Braking Force in Automobiles
- Table 53: Global Market Volume for Production of Light Vehicle Assemblies, by Region/Country, Through 2023
- Table 54: Global Market and Volume for Light Vehicle OEM Dry Friction Material, by

Material and Region, Through 2023

Table 55: Expected Lifetime Distances of Various Types of Friction

Table 56: Global Market for Friction Materials in Light Vehicle Production, by Material Type and Region, Through 2023

Table 57: Differences between the Automotive Aftermarket and OE Friction Manufacturers

Table 58: Global Market for Aircraft/Aerospace Dry Friction Materials, by Material Type and Region, Through 2023

Table 59: Global Market for Industrial Dry Friction Materials, by Application and Region, Through 2023

Table 60: Friction Material Components in Automatic Transmissions

Table 61: Global Market for Automotive Wet Friction Materials, by Material Type and Region, Through 2023

Table 62: Global Market for Construction Wet Friction Material, by Market Type and Region, Through 2023

Table 63: Comparison of Manual and Automatic Truck Transmissions

Table 64: Global Market for Other Wet Friction Materials in Automatic and Manual Transmissions, by Market Segments and Region, Through 2023

Table 65: Advantages and Disadvantages of New vs. Rebuilt Clutches in the Aftermarket

Table 66: Global Market for Friction Products and Materials, by Region/Country, Through 2023

Table 67: North American Market for Friction Products, by Application, Through 2023

Table 68: Advanced Braking Systems Made Popular in Europe

Table 69: Differences between the North American and European Markets

Table 70: Western European Market for Friction Products, by Application, Through 2023

Table 71: Japanese Market for Friction Products, by Application, Through 2023

Table 72: Chinese Market for Friction Products, by Application, Through 2023

Table 73: Indian Market for Friction Products, by Application, Through 2023

Table 74: Rest of the World Market for Friction Products, by Application, Through 2023

Table 75: Strategic Analysis of the North American Friction Products Market

List Of Figures

LIST OF FIGURES

Summary Figure: Global Friction Products Market Outlook, by Sector, 2017-2023

Figure 1: Global Medium and Heavy-Duty Vehicle Production, 2008-2023

Figure 2: Average Prices for the Three Grades of Friction Materials Used in Standard Applications

Figure 3: Global Market Shares of the Three Grades of Friction Materials

Figure 4: Global Market Shares of Medium Tuck Brakes, by Type

Figure 5: North American Market Share of Trailer Axle Producers, 2017

Figure 6: Global Market Volume for Production of Light Vehicle Assemblies, 1998-2023

Figure 7: Large Commercial Aircraft Deliveries, 2017-2023

Figure 8: North American Market Share for Suppliers of Medium Truck Transmissions, 2017

Figure 9: North American Market Share for Suppliers of Clutch Buttons, 2017

Figure 10: Global Market Shares of Friction Products and Materials, by Region, 2017

Figure 11: Western European Market Share for Friction Products, by Country, 2017

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