

Magnets and Magnet Materials: Global Markets

<https://marketpublishers.com/r/MB3A0AB2728EN.html>

Date: September 2017

Pages: 205

Price: US\$ 1,250.00 (Single User License)

ID: MB3A0AB2728EN

Abstracts

The global market for magnets and magnetic materials reached \$32.2 billion in 2016. The market should reach \$34.9 billion in 2017 and \$51.7 billion by 2022, increasing at a compound annual growth rate (CAGR) of 8.2% from 2017 through 2022.

The global electric motors market for magnets and magnetic materials reached \$10.0 billion in 2016. The market should reach \$10.9 billion in 2017 and \$16.2 billion by 2022, increasing at a CAGR of 8.3% from 2017 through 2022.

The global generators market for magnets and magnetic materials reached \$3.8 billion in 2016. The market should reach \$4.1 billion in 2017 and \$6.2 billion in 2022, increasing at a CAGR of 8.6% from 2017 through 2022.

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: MARKET AND TECHNOLOGY BACKGROUND

Magnet Chemistry and Technologies
Magnets
Types of Magnets
Magnetic Materials
Alloys
Ferrites
Magnetic Fluids
Other Materials
Classification of Magnetic Materials
Fundamentals of Magnetism
Hard Magnetic Materials
Soft Magnetic Materials
Economics of Magnetic Materials
Research Trends
Role of Government
National Laboratories
Others

CHAPTER 4: GLOBAL MARKET FOR MAGNETS

Global Market for Magnets and Magnetic Materials
Global Market for Magnets and Magnetic Materials, by Application

Global Market for Magnets and Magnetic Materials, by End-User Industry
Global Market for Magnets and Magnetic Materials, by Region

CHAPTER 5: GLOBAL MARKET FOR PERMANENT MAGNETS

Global Market for Permanent Magnets
Global Permanent Magnet Markets, by Production Process
Global Market for Permanent Magnets, by Application
Global Market for Permanent Magnets, by End-User Industry
Global Market for Permanent Magnets, by Region
Global Market for Permanent Magnets, by Type
Global Market for Ferrite Magnets, by Application
Global Market for Ferrite Magnets, by Production Process
Global Market for Ferrite Magnets, by Region
Global Market for Neodymium Magnets
Neodymium-Iron-Boron
Types and Materials
Fabrication Processes
Applications
RS Magnets
Other Issues
Global Market for Neodymium Magnets, by Application
Global Market for Neodymium Magnets, by Production Process
Global Market for Neodymium Magnets, by Region
Global Market for Samarium-Cobalt Magnets
Global Market for Samarium-Cobalt Magnets, by Application
Global Market for Samarium-Cobalt Magnets, by Production Process
Global Market for Samarium-Cobalt Magnets, by Region
Aluminum-Nickel-Cobalt Materials
Types and Materials
Properties
Fabrication Process
Applications
Global Market for AlNiCo Magnets, by Application
Global Market for AlNiCo Magnets, by Production Process
Global Market for AlNiCo Magnets, by Region
Global Market for Permanent Magnets in Electric Motors, by Region
Global Market for Permanent Magnets in Generators, by Region
Global Market for Permanent Magnets in Medical Devices, by Region

Global Market for Permanent Magnets in Sonic Equipment, Magnetic Sensors, Actuators and Transducers, by Region

Global Market for Permanent Magnets in Consumer Electronics, by Region

Global Market for Permanent Magnets in Other Applications, by Region

CHAPTER 6: GLOBAL MARKET FOR SOFT MAGNETIC MATERIALS

Global Market for Soft Magnetic Materials

Global Market for Soft Magnetic Materials, by Application

Power Transformers

RF Transformers

EMI Filters

Flyback Transformer

Global Market for Electrical Steel, by Application

Global Market for Soft Ferrite, by Application

Global Market for Other Materials, by Application

Global Market for Soft Magnetic Materials, by End-User Industry

Global Market for Soft Magnetic Materials, by Region

Global Market for Electrical Steel, by Region

Global Market for Soft Ferrite, by Region

Global Market for Other Magnetic Materials, by Region

Global Market for Soft Magnetic Materials Applications, by Region

Global Market for Transformers, by Region

CHAPTER 7: PATENT REVIEW

Recent Patents on Magnets and Magnet Materials

CHAPTER 8: MARKET DRIVERS

Growth of Automotive Industry

Growing Consumer Electronics Industry and Miniaturization of Devices

Development of Smartphones

Expansion of Laptops, Desktops PCs, Notebooks and Tablets

Wind Energy Installations: A Major Driver of Magnet Generators

CHAPTER 9: COMPANY PROFILES

Supplier's Landscape and Company Profiles

About BCC Research
About BCC Research
BCC Membership
BCC Custom Research

List Of Tables

LIST OF TABLES

Summary Table: Global Market for Magnet and Magnetic Material, by Application, Through 2022 (\$ Millions)

Table 1 Nominal Compositions, Curie Temperatures and Magnetic Orientations of Selected Permanent Magnet Materials

Table 2 Summary of Range of Properties of Permanent Magnet Materials

Table 3 Nominal Magnetic Properties of Selected Permanent Magnet Materials

Table 4 Mechanical and Physical Properties of Selected Permanent Magnet Materials

Table 5 Prices and Relative Values of Magnetic Materials

Table 6 Global Market for Magnets and Magnetic Materials, by Type, Through 2022 (\$ Millions)

Table 7 Global Market for Magnets and Magnetic Materials, by Application, Through 2022 (\$ Millions)

Table 8 Global Market for Magnets and Magnetic Materials, by End-User Industry, Through 2022 (\$ Millions)

Table 9 Global Market for Magnets and Magnetic Materials, by Region, Through 2022 (\$ Millions)

Table 10 Global Market for Permanent Magnets, by Type, Through 2022 (\$ Millions)

Table 11 Global Market for Permanent Magnets, by Production Process, Through 2022 (\$ Millions)

Table 12 Global Market for Permanent Magnets, by Application, Through 2022 (\$ Millions)

Table 13 Global Market for Permanent Magnets, by End-User Industry, Through 2022 (\$ Millions)

Table 14 Global Market for Permanent Magnets, by Region, Through 2022 (\$ Millions)

Table 15 Nominal Compositions, Curie Temperatures and Magnetic Orientation of Sintered Ceramic Magnets

Table 16 Magnetic Properties of Sintered Ceramic Magnets

Table 17 Global Market for Ferrite Magnets, by Application, Through 2022 (\$ Millions)

Table 18 Global Market for Ferrite Magnets, by Production Process, Through 2022 (\$ Millions)

Table 19 Global Market for Ferrite Magnets, by Region, Through 2022 (\$ Millions)

Table 20 MMPA Designations for Rare Earth Iron-Boron Magnets

Table 21 Other Advantages of Melt Spinning

Table 22 Global Market for Neodymium Magnets, by Application, Through 2022 (\$ Millions)

Table 23 Global Market for Neodymium Magnets, by Production Process, Through 2022 (\$ Millions)

Table 24 Global Market for Neodymium Magnets, by Region, Through 2022 (\$ Millions)

Table 25 Global Market for Samarium-Cobalt Magnets, by Application, Through 2022 (\$ Millions)

Table 26 Global Market for Samarium-Cobalt Magnets, by Production Process, Through 2022 (\$ Millions)

Table 27 Global Market for Samarium-Cobalt Magnets, by Region, Through 2022 (\$ Millions)

Table 28 AlNiCo Magnet Designations

Table 29 Nominal Composition, Curie Temperatures and Magnetic Orientation of Cast AlNiCos

Table 30 Magnetic Properties of Cast AlNiCo Magnets

Table 31 Nominal Physical and Mechanical Properties of Cast AlNiCo Magnets

Table 32 AlNiCo Magnet Designations, Nominal Composition, Curie Temperatures and Magnetic Orientation of Sintered AlNiCos

Table 33 Magnetic Properties of Sintered AlNiCo Magnets

Table 34 Nominal Mechanical and Physical Properties of Sintered AlNiCo Magnets

Table 35 Typical Uses of AlNiCo Magnets

Table 36 Static Applications of Cast AlNiCo Magnets

Table 37 Dynamic Applications of Cast AlNiCo Magnets

Table 38 Static Applications of Sintered AlNiCo Magnets

Table 39 Global Market for AlNiCo Magnets, by Application, Through 2022 (\$ Millions)

Table 40 Global Market for AlNiCo Magnets, by Production Process, Through 2022 (\$ Millions)

Table 41 Global Market for AlNiCo Magnets, by Region, Through 2022 (\$ Millions)

Table 42 Global Market for Permanent Magnets in Electric Motors, by Region, Through 2022 (\$ Millions)

Table 43 Global Market for Permanent Magnets in Generators, by Region, Through 2022 (\$ Millions)

Table 44 Global Market for Permanent Magnets in Medical Devices, by Region, Through 2022 (\$ Millions)

Table 45 Global Market for Permanent Magnets in Sonic Equipment, Magnetic Sensors, Actuators and Transducers, by Region, Through 2022 (\$ Millions)

Table 46 Global Market for Permanent Magnets in Consumer Electronics, by Region, Through 2022 (\$ Millions)

Table 47 Global Market for Permanent Magnets in Other Applications, by Region, Through 2022 (\$ Millions)

Table 48 Global Market for Soft Magnetic Materials, by Type, Through 2022 (\$ Millions)

Table 49 Global Market for Soft Magnetic Materials, by Application, Through 2022 (\$ Millions)

Table 50 Global Market for Electrical Steel, by Application, Through 2022 (\$ Millions)

Table 51 Global Market for Soft Ferrite, by Application, Through 2022 (\$ Millions)

Table 52 Global Market for Other Materials, by Application, Through 2022 (\$ Millions)

Table 53 Global Market for Soft Magnetic Materials, by End-User Industry, Through 2022 (\$ Millions)138

Table 54 Global Market for Soft Magnetic Materials, by Region, Through 2022 (\$ Millions)

Table 55 Global Market for Electrical Steel, by Region, Through 2022 (\$ Millions)

Table 56 Global Market for Soft Ferrite, by Region, Through 2022 (\$ Millions)

Table 57 Global Market for Other Magnetic Materials, by Region, Through 2022 (\$ Millions)

Table 58 Global Market for Electric Motors, by Region, Through 2022 (\$ Millions)

Table 59 Global Market for Transformers, by Region, Through 2022 (\$ Millions)

Table 60 Global Market for Generators, by Region, Through 2022 (\$ Millions)

Table 61 Global Market for Alternators, by Region, Through 2022 (\$ Millions)

Table 62 Global Market for Other Applications, by Region, Through 2022 (\$ Millions)

Table 63 Important Patents for Alloys

Table 64 Important Patents for Ferrites

Table 65 Important Patents for Rare Earth

Table 66 Important Patents for SmCo

Table 67 Important Patents for NdFeB

Table 68 Important Patents for SmFeN

Table 69 Important Patents for Magnetic Fluids

Table 70 Important Patents for Permanent Magnet

Table 71 Important Patents for Soft Magnet

Table 72 Production of Motor Vehicles, 2016 (Million Units)

Table 73 Global Top Eleven Countries Selling Plug-In Hybrid Vehicles, 2016 (Thousands)

Table 74 Global Offshore Wind Energy Capacity, 2016 (MW)

Table 75 Top Ten Onshore Turbine Manufacturers, 2016 (GW)

Table 76 Top Ten Offshore Turbine Manufacturers, 2016 (MW)

Table 77 Daido Steel Co. Ltd.'s Financial Performance, Through 2016 (\$ Millions/%)

List Of Figures

LIST OF FIGURES

Summary Figure: Global Market for Magnet and Magnetic Material, by Application, 2016-2022 (\$ Millions)

Figure 1 Hysteresis Loop Associated with a Permanent Magnet

Figure 2 Global Market Share for Magnets and Magnetic Materials, by Type, 2017 and 2022 (%)

Figure 3 Global Market Share for Magnets and Magnetic Materials, by Application, 2017 and 2022 (%)

Figure 4 Global Market Share for Magnets and Magnetic Materials, by End-User Industry, 2017 and 2022 (%)

Figure 5 Global Market Share for Magnets and Magnetic Materials, by Region, 2017 and 2022 (%)

Figure 6 Global Market Share for Permanent Magnets, by Type, 2017 and 2022 (%)

Figure 7 Typical P/M Magnet Manufacturing

Figure 8 Global Market Share for Permanent Magnets, by Production Process, 2017 and 2022 (%)

Figure 9 Global Market Share for Permanent Magnets, by Application, 2017 and 2022 (%)

Figure 10 Global Market Share for Permanent Magnets, by End-User Industry, 2017 and 2022 (%)

Figure 11 Global Market Share for Permanent Magnets, by Region, 2017 and 2022 (%)

Figure 12 Global Market Share for Ferrite Magnets, by Application, 2017 and 2022 (%)

Figure 13 Global Market Share for Ferrite Magnets, by Production Process, 2017 and 2022 (%)

Figure 14 Global Market Share for Ferrite Magnets, by Region, 2017 and 2022 (%)

Figure 15 Typical NdFeB Sintering Manufacturing Process

Figure 16 Global Market Share for Neodymium Magnets, by Application, 2017 and 2022 (%)

Figure 17 Global Market Share for Neodymium Magnets, by Production Process, 2017 and 2022 (%)

Figure 18 Global Market Share for Neodymium Magnets, by Region, 2017 and 2022 (%)

Figure 19 Global Market Share for Samarium-Cobalt Magnets, by Application, 2017 and 2022 (%)

Figure 20 Global Market Share for Samarium-Cobalt Magnets, by Production Process, 2017 and 2022 (%)

Figure 21 Global Market Share for Samarium-Cobalt Magnets, by Region, 2017 and

2022 (%)

Figure 22 Typical AlNiCo Casting Manufacturing Process

Figure 23 Typical AlNiCo Sintering Manufacturing Process

Figure 24 Global Market Share for AlNiCo Magnets, by Application, 2017 and 2022 (%)

Figure 25 Global Market Share for AlNiCo Magnets, by Production Process, 2017 and 2022 (%)

Figure 26 Global Market Share for AlNiCo Magnets, by Region, 2017 and 2022 (%)

Figure 27 Global Market Share for Permanent Magnets in Electric Motors, by Region, 2017 and 2022 (%)

Figure 28 Global Market Share for Permanent Magnets in Generators, by Region, 2017 and 2022 (%)

Figure 29 Global Market Share for Permanent Magnets in Medical Devices, by Region, 2017 and 2022 (%)

Figure 30 Global Market Share for Permanent Magnets in Sonic Equipment, Magnetic Sensors, Actuators and Transducers, by Region, 2017 and 2022 (%)

Figure 31 Global Market Share for Permanent Magnets in Consumer Electronics, by Region, 2017 and 2022 (%)

Figure 32 Global Market Share for Permanent Magnets in Other Applications, by Region, 2017 and 2022 (%)

Figure 33 Global Market Share for Soft Magnetic Materials, by Type, 2017 and 2022 (%)

Figure 34 Global Market Share for Soft Magnetic Material, by Application, 2017 and 2022 (%)

Figure 35 Global Market Share for Electrical Steel, by Application, 2017 and 2022 (%)

Figure 36 Global Market Share for Soft Ferrite, by Application, 2017 and 2022 (%)

Figure 37 Global Market Share for Other Materials, by Application, 2017 and 2022 (%)

Figure 38 Global Market Share for Soft Magnetic Materials, by End-User Industry, 2017 and 2022 (%)

Figure 39 Global Market Share for Soft Magnetic Materials, by Region, 2017 and 2022 (%)

Figure 40 Global Market Share for Electrical Steel, by Region, 2017 and 2022 (%)

Figure 41 Global Market Share for Soft Ferrite, by Region, 2017 and 2022 (%)

Figure 42 Global Market Share for Other Magnetic Materials, by Region, 2017 and 2022 (%)

Figure 43 Global Market Share for Electric Motors, by Region, 2017 and 2022 (%)

Figure 44 Global Market Share for Transformers, by Region, 2017 and 2022 (%)

Figure 45 Global Market Share for Generators, by Region, 2017 and 2022 (%)

Figure 46 Global Market Share for Alternators, by Region, 2017 and 2022 (%)

Figure 47 Global Market for Other Applications, by Region, 2017 and 2022 (%)

- Figure 48 Global Automotive Production, by Region, 2016 (%)
- Figure 49 Global Automotive Sales, by Region, 2016 (%)
- Figure 50 Global Market Share of Hybrid Cars, by Company, 2015 (%)
- Figure 51 Global Market Share of Plug-In Hybrid Cars, by Company, 2015 (%)
- Figure 52 Global Market Share of Battery Electric Cars, by Company, 2015 (%)
- Figure 53 Global Retail Sales of Electronic Products, 2013-2016 (%)
- Figure 54 Global Sales of Smartphones, by Vendors, 2015 vs. 2016 (%)
- Figure 55 Global Shipments of Smartphones, by Volume (Million Units)
- Figure 56 Global Market Share of Smartphones, by Region, 2016 (%)
- Figure 57 Global Market Share of Smartphones, by Operating System, 2016 (Million Units)
- Figure 58 Global Market Share of Notebooks, by Vendor, 2015 (%)
- Figure 59 Global Market Share of Desktop PCs, by Vendor, 2016 (%)
- Figure 60 Global Market Share of Tablets, by Vendor, 2016 (%)
- Figure 61 Global Wind Power Installed Capacity, by Region, 2016 (MW)
- Figure 62 Daido Steel Co. Ltd.'s Revenue, by Segment, FY 2016 (%)

I would like to order

Product name: Magnets and Magnet Materials: Global Markets

Product link: <https://marketpublishers.com/r/MB3A0AB2728EN.html>

Price: US\$ 1,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/MB3A0AB2728EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970