

Freedonia Focus Reports
World Collection



World Magnets

October 2015



Highlights

World Overview and Forecasts

Demand by Product | Demand by Market | Production Trends

Regional Trends and Forecasts

Regional Demand Overview | North America | Western Europe | Asia/Pacific
Other Regions

Industry Structure

Industry Composition and Characteristics | Additional Companies Cited

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ABOUT THIS REPORT

Scope & Method

This report forecasts total world demand in 2019 for magnets by product, market, and major world region in US dollars at the manufacturers' level. Product segments include:

- neodymium
- ferrite
- samarium cobalt
- alnico and other products such as copper nickel iron, iron chromium cobalt, and iron cobalt vanadium.

Excluded from the scope of this report are hard magnetic recording media (audio tape, credit card magnetic strips, etc) and “soft” magnetic materials used in electromagnets, which only become magnetized when wound with current-carrying wire and lose their magnetic field when the current is turned off. In this report, the terms “magnets” and “magnetic materials” are used as synonyms for permanent magnets and permanent magnetic materials.

Reported markets encompass:

- electronics
- industrial
- automotive
- other markets such as electric bicycles and motorcycles, aerospace and military equipment, and all-terrain vehicles.

Major world regions include North America, Western Europe, Asia/Pacific, and all other regions. Demand by product segment is also forecast for each major world region.

To illustrate historical trends world, product, market, and regional demand (including product segments) are provided for 2009 and 2014. Further, regional demand is segmented by market for 2014. Finally, world shipments are segmented by major world region and provided for 2009, 2014, and 2019.

This report quantifies trends in terms of compound annual growth rates (CAGRs), which, by definition, employ in their calculation only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the trend beginning in the base year and ending in the forecast year. Forecasts are developed via the identification and analysis of pertinent statistical relationships and other historical trends and events, as well as their expected impact over the forecast period. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year. Unless otherwise indicated, historical demand and production values are expressed in US dollars at the prevailing

rate of exchange with local currencies. Forecasts to 2019, however, assume a fixed 2014 exchange rate.

Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the [Table of Contents](#).

Sources

World Magnets (FW65066) is based on [a comprehensive industry study](#) published by The Freedonia Group in October 2015. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other industry studies by The Freedonia Group.

Specific sources and additional resources are listed in the [Resources](#) section of this publication for reference and to facilitate further research.

Industry Codes

The topic of this report is related to the following industry codes:

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
327113	Porcelain Electrical Supply Mfg	3264	Porcelain Electrical Supplies
332999	All Other Miscellaneous Fabricated Metal Product Mfg	3499	Fabricated Metal Products, NEC
334510	Electromedical and Electrotherapeutic Apparatus Mfg	3845	Mfg of Irradiation, Electromedical and Electromedical Equipment

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RESOURCES

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3328 *World Magnets*, October 2015

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Related Industry Studies

3260 *Insulated Wire & Cable*, May 2015

[see study contents](#)

3238 *Electric Motors*, December 2014

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3198 *World Motorcycles*, December 2014

[see study contents](#)

3155 *World Hybrid & Electric Vehicles*, June 2014

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3139 *Wind Turbine Systems*, March 2014

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World Motorcycles

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Trade Publications

Drives & Controls (United Kingdom)

<http://drivesncontrols.com>

Industrial Minerals (United Kingdom)

www.indmin.com

Journal of Magnetism (South Korea)

<http://jmagnetics.org>

Magnetics Business & Technology (USA)

www.magneticsmagazine.com

Power Electronics (USA)

<http://powerelectronics.com>

Agencies & Associations

ASTM International

www.astm.org

IEEE Magnetics Society

www.ieeemagnetics.org

International Electrotechnical Commission

www.iec.ch

International Monetary Fund

www.imf.org

Organisation for Economic Co-operation and Development

www.oecd.org

World Bank

www.worldbank.org

World Intellectual Property Organization

www.wipo.int

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