

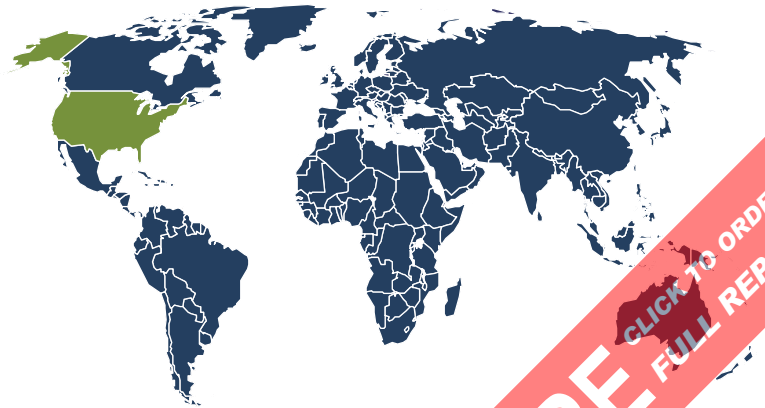


Freedonia Focus Reports
US Collection

Magnets:

United States

October 2015



Highlights

Market Environment

Historical Trends | Key Economic Indicators | Technological Trends
Legal and Regulatory Factors | NAFTA Overview | Shipments Overview

Segmentation and Forecasts

Products | Markets

Industry Structure

Industry Composition and Characteristics | Additional Companies Cited

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ABOUT THIS REPORT

Scope & Method

This report forecasts US magnet demand and shipments in US dollars at the manufacturers' level to 2019. Total demand is segmented by magnet product in terms of:

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

This report analyzes the supply of and demand for permanent magnets, “hard” materials that can be magnetized (gain the ability to attract iron and other ferromagnetic objects) by an external magnetic field and remain magnetized after the external field is removed. 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.

Total demand is also segmented by market as follows:

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

To illustrate historical trends, total demand and total shipments are provided at five-year intervals for 2004, 2009, and 2014; the various demand segments are reported for 2009 and 2014.

Forecasts are developed via the identification and analysis of pertinent statistical relationships and other historical trends/events as well as their expected progression/impact over the forecast period. Changes in quantities between reported years of a given total or segment are typically provided in terms of five-year compound annual growth rates (CAGRs). For the sake of brevity, forecasts are generally stated in smoothed CAGR-based descriptions to the forecast year, such as “demand is projected to rise 3.2% annually through 2019.” The result of any particular year over that period, however, may exhibit volatility and depart from a smoothed, long-term trend, as

historical data typically illustrate.

Key macroeconomic indicators are also provided at five-year intervals with CAGRs for the years corresponding to other reported figures. 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

Magnets: United States (FF65066) is based on [World Magnets](#), 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	Electromedical and Electrotherapeutic Apparatus

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RESOURCES

The Freedonia Group, Inc

3328 *World Magnets*, October 2015

www.freedoniagroup.com

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Related Industry Studies

3260 *Insulated Wire & Cable*, May 2015

[see study contents](#)

3238 *Electric Motors*, December 2014

[see study contents](#)

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 Hybrid & Electric Vehicles

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Trade Publications

Drives & Controls

www.drivesncontrols.com

Industrial Minerals

www.indmin.com

Journal of Magnetism

www.komag.org/journal

Magnetics Business & Technology

www.magneticsmagazine.com

Power Electronics

www.powerelectronics.com

Agencies & Associations

ASTM International

www.astm.org

International Electrotechnical Commission

www.iec.ch

United States Census Bureau

www.census.gov

United States Consumer Product Safety Commission

www.cpsc.gov

United States Department of Energy

www.energy.gov

United States Geological Survey

www.usgs.gov

United States International Trade Commission

www.usitc.gov

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