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Chromium:

United States

November 2018



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About This Report

Scope

This report forecasts to 2022 US chromium demand in metric tons of chromium content. Total demand is segmented by material in terms of:

- high-carbon ferrochromium
- low-carbon ferrochromium
- other materials, such as chromium metal and ferrochromium silicon

Total demand is also segmented by end use as follows:

- stainless and heat-resisting steel
- other steel
- superalloys
- other alloys and uses, such as aluminum alloys, cobalt alloys, and nickel alloys

To illustrate historical trends, total demand, trade, and the various segments are provided in annual series from 2007 to 2017.

Demand represents the net weight of chromium-containing materials consumed in the US. Chromium is defined as chromium ferroalloys and chromium metal. Chromite ore, foundry sand, refractories, chromium chemicals, and same-site reuse of stainless steel scrap are excluded from reported demand figures.

Key macroeconomic indicators are also provided with quantified trends. 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

Chromium: United States (FF65011) represents the synthesis and analysis of data from various secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

About This Report

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

Industry Codes

Table 5 | NAICS & SIC Codes Related to Chromium

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
212299	All Other Metal Ore Mining	1061	Ferrous Alloy Ores, Except Vanadium
331111	Iron and Steel Mills	3312	Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills
331112	Electrometallurgical Ferrous Alloy Product Manufacturing	3313	Electrometallurgical Products, Except Steel
331419	Primary Smelting and Refining of Nonferrous Metal (except Copper and Aluminum)	3339	Primary Smelting and Refining of Nonferrous Metals, Except Copper and Aluminum

Source: US Census Bureau

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

About This Report

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Resources

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Global Hybrid & Electric Vehicles, May 2018

Medical Implants in the US, November 2016

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Metal Services: United States

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Steel Mill Products: United States

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Trade Publications

American Metal Market

Metal Bulletin

Metal Center News

Stainless Steel World

Steel Times International

Agencies & Associations

American Iron and Steel Institute

International Chromium Development Association

International Stainless Steel Forum

North American Steel Alliance

Specialty Steel Industry of North America

Steel Recycling Institute

United States Census Bureau

United States Department of Labor

Occupational Safety and Health Administration

United States Environmental Protection Agency

United States Geological Survey

United States International Trade Commission

World Steel Association