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Refractories: Canada

January 2018



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Table of Contents

1. Highlights	3
2. Market Environment	4
Historical Trends	4
Key Economic Indicators	6
Properties of Refractories	7
NAFTA Outlook	8
3. Segmentation & Forecasts	9
Materials	9
Clay	11
Nonclay	11
Markets	13
Nonferrous Metals	14
Iron & Steel	14
Nonmetallic Minerals	15
Other Markets	15
4. Industry Structure	17
Industry Characteristics	17
Market Share	18
HarbisonWalker International	18
Magnesita Refratários	19
Morgan Advanced Materials	19
5. About This Report	21
Scope & Method	21
Sources	22
Industry Codes	22
Resources	23

List of Tables & Figures

Figure 1 Canada: Key Trends in the Refractory Market, 2016 – 2021	3
Figure 2 Canada: Refractory Demand Trends, 2006 – 2016	4
Table 1 Canada: Key Indicators for Refractory Demand, 2006 – 2021 (2015US\$ bil)	6
Figure 3 NAFTA: Refractory Demand by Country, 2016 (%)	8
Figure 4 Canada: Refractory Demand by Material, 2006 – 2021 (000 m tons)	9
Table 2 Canada: Refractory Demand by Material, 2006 – 2021 (000 m tons)	9
Table 3 Canada: Refractory Demand & Shipments, 2006 – 2021 (US\$ mil)	10
Figure 5 Canada: Refractory Demand by Material, 2006 – 2021 (%)	12
Figure 6 Canada: Refractory Demand by Market, 2006 – 2021 (000 m tons)	13
Table 4 Canada: Refractory Demand by Market, 2006 – 2021 (000 m tons)	13
Figure 7 Canada: Refractory Demand by Market, 2006 – 2021 (%)	16
Table 5 Canada: Select Suppliers to the Refractory Market by Principal Product Lines	18
Table 6 Industry Codes Related to Refractories	22

About This Report

Scope & Method

This report forecasts to 2021 refractory demand in metric tons, and total demand and total shipments in nominal US dollars at the manufacturer level in Canada. Total demand is segmented by material in terms of:

- clay
- nonclay

Total demand is also segmented by market as follows:

- nonferrous metals
- iron and steel
- nonmetallic minerals
- other markets such as chemical manufacturing, petroleum refining, and waste incinerators

To illustrate historical trends, total demand by volume is provided in annual series from 2006 to 2016; total demand and total shipments by value, and the various demand segments by volume are reported at five-year intervals for 2006, 2011, and 2016.

For the purposes of this report, refractory is defined as by ASTM International: “nonmetallic minerals having those chemical and physical properties that make them applicable for structures, or as components of systems, that are exposed to environments above 538 degrees Celsius (1,000 degrees Fahrenheit)”. Materials that are resistant to lower temperatures are excluded.

This report 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.

For any given historical year, US dollar amounts are obtained from values expressed in the applicable local currency. These local currency values are converted to US dollars at the average annual exchange rate for that year. For forecast years, the US dollar amounts

About This Report

assume the same annual exchange rate as that prevailing in 2016. All value figures cited are in US dollars unless otherwise specified.

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

Refractories: Canada (FA60037) is based on *Global Refractory Markets*, a comprehensive industry study published by The Freedonia Group. 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 reports and 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

Table 6 | Industry Codes Related to Refractories

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
327124	Clay Refractory Manufacturing	3255	Clay Refractories
327125	Nonclay Refractory Manufacturing	3297	Nonclay Refractories

Source: US Census Bureau

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Resources

The Freedonia Group

Global Refractory Markets, January 2018

Freedonia Industry Studies

Insulation Market in the US, December 2017

World Industrial Silica Sand, October 2016

World Flat Glass, August 2016

World Insulation, July 2016

World Abrasives, June 2016

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Industrial Heating

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