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# Industrial Lubricants: United States

March 2018



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# About This Report

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## Scope & Method

This report forecasts to 2021 US industrial lubricant demand in metric tons. Total demand is segmented by product in terms of:

- process oils
- engine oils
- hydraulic fluids
- metalworking fluids
- general industrial oils
- gear oils
- greases

Total demand is also segmented by market as follows:

- manufacturing
- transportation equipment
- other markets such as power generation, oil and gas production, and mining

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

Automotive lubricants – including products used in motor vehicles, off-highway equipment, motorcycles, three-wheelers, recreational vehicles and watercraft, and power lawn and garden equipment – are not included in this report. The mining and agriculture industries require both industrial and automotive lubricants. This report excludes lubricants utilized in the motor vehicle applications in those industries (e.g., tractors and dump trucks), but includes all other lubricants.

For the sake of continuity, transportation equipment refers only to marine, railroad, and aerospace equipment. Motor vehicle production machinery lubricants are included in the manufacturing market.

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

## About This Report

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.

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

*Industrial Lubricants: United States* (FF35116) is based on *Global Industrial Lubricants*, 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 5 | Industry Codes Related to Industrial Lubricant

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
324110	Petroleum Refineries	2869	Industrial Organic Chemicals, NEC
324191	Petroleum Lubricating Oil and Grease Mfg	2899	Chemicals and Chemical Preparations, NEC
325199	All Other Basic Organic Chemical Mfg	2911	Petroleum Refining
325998	All Other Miscellaneous Chemical Product and Preparation Mfg	2992	Lubricating Oils and Greases

Source: US Census Bureau

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## Resources

### The Freedonia Group

*Global Industrial Lubricants*, March 2018

### Freedonia Industry Studies

*Automotive Lubricants Market in Canada*, February 2018

*Automotive Lubricants Market in India*, February 2018

*Automotive Lubricants Market in Malaysia*, January 2018

*Automotive Lubricants Market in the UK*, January 2018

*Global Plastics Processing Machinery*, January 2018

*Global Automotive Lubricants*, December 2017

*Global 3D Printing Markets*, October 2017

*Global Food Processing Machinery*, September 2017

*Drilling Fluids and Chemicals Market in the US*, May 2017

*Synthetic Lubricants and Functional Fluids Market in the US*, January 2017

*Lubricants*, April 2016

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*Automotive Lubricants: United States*

*Drilling Fluids & Chemicals: United States*

*Freight by Rail: United States*

*Global Automotive Lubricants*

*Global Plastics Processing Machinery*

*Lubricants: United States*

*Manufacturing: United States*

*Mining & Quarrying: United States*

*Plastics Processing Machinery: United States*

*Refined Petroleum Products: United States*

*Rubber: United States*

*Synthetic Lubricants & Functional Fluids: United States*

*Transport Equipment: United States*

### Freedonia Custom Research

### Trade Publications

*Containerisation International Yearbook*

*Fuels & Lubes International*

*Lube Report*

*Lubes 'n' Greases*

*Lubezine*

*Lubricants Industry Factbook*

## About This Report

*Machinery Lubrication*

*National Oil & Lube News*

*Petrosil Base Oil Report*

### **Agencies & Associations**

American Petroleum Institute

ASTM International

Independent Lubricant Manufacturers Association

International Lubricants Standardization and Approval Committee

International Maritime Organization

International Organization for Standardization

International Rubber Study Group

Mine Safety and Health Administration

NSF International

Occupational Safety and Health Administration

United States Census Bureau

United States Department of Agriculture

United States Environmental Protection Agency

United States Food and Drug Administration

United States International Trade Commission

World Bank