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# World Lubricants

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Industry Study with Forecasts for **2010 & 2015**

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*Global lubricant demand will be driven by increasing motor vehicle ownership worldwide, a rising number of kilometers traveled per vehicle, and growth in worldwide manufacturing activity.*

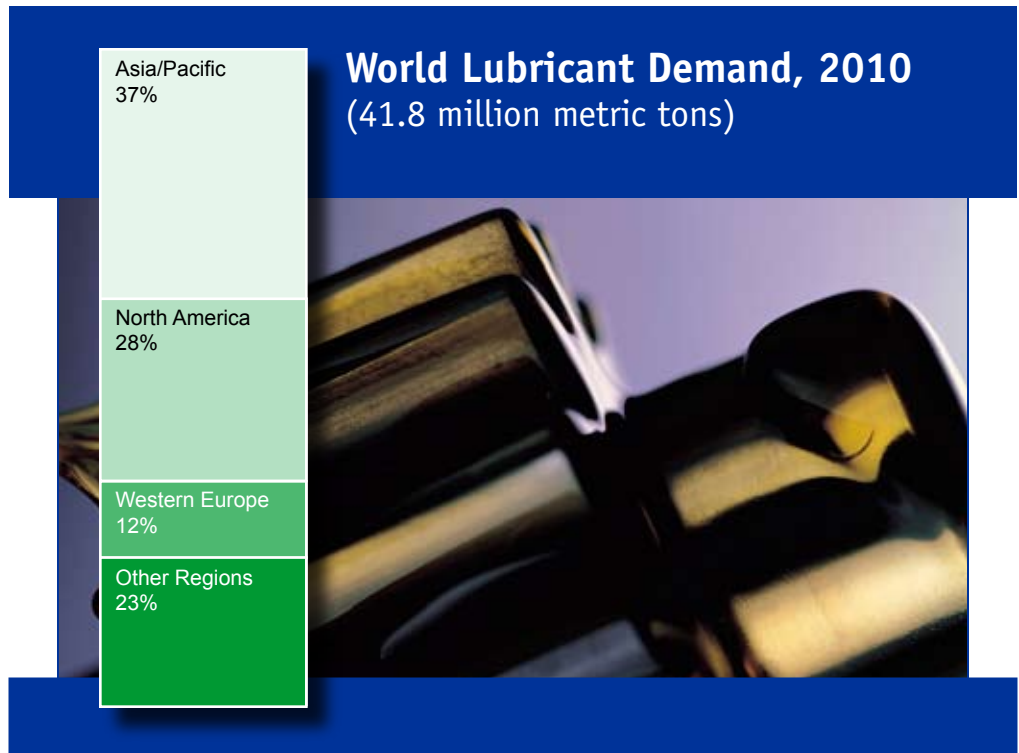
## Automotive lubricants to drive demand through 2010

World demand for lubricants is forecast to advance 2.3 percent per year to 41.8 million metric tons in 2010. Gains for automotive lubricants will be driven by increasing motor vehicle ownership worldwide, as well as a rising number of kilometers traveled per vehicle. Additionally, growth in worldwide manufacturing activity will boost the demand for industrial lubricants such as process oils and hydraulic fluids.

However, the prevailing global trend is toward reducing lubricant consumption, both for environmental reasons as well as cost-effectiveness purposes. In developed regions such as North America and Western Europe, increasing standards for lubricants will result in significantly improved quality, decreasing the volume of lubricant needed for a particular application. Lubricant quality will also improve in developing regions, as outdated motor vehicles and machinery are replaced with products that require smaller amounts of better-performing lubricants.

## Process oils, hydraulic fluids to outpace others

Although engine oils will continue to comprise nearly half of all lubricant demand, fastest growth is expected for process oils, which are often consumed during processing and are thus not as vulnerable to trends toward reducing



lubricant consumption. Gains for hydraulic fluids will also exceed the global average for lubricants, fueled by growing mining activity and oil and gas production, as well as increasing mechanization of agriculture and construction industries in developing nations.

## Asia/Pacific market for lubricants to lead gains

Among major world regions, lubricant demand in the Asia/Pacific region is expected to grow at the fastest pace, with the market in China leading overall gains. The region is characterized by rapid expansions in manufacturing activity and motor vehicle park, both of which bode well for lubricant consumption.

However, minimal advances in the highly mature Japanese lubricant industry will limit overall gains for the region. Growth in demand for lubricants in the more developed markets of North America and Western Europe will be well below the global average, due to slower economic growth and an increased emphasis on extended drain intervals for lubricants. Other world regions, including Latin America and the Africa/Mideast region, will see generally favorable gains, a result of increased manufacturing output and rising motor vehicle utilization. However, demand in Eastern Europe will grow at a subpar rate, restrained by the adoption of West European trends toward higher-quality products and reduced lubricant volume.



## Sample Text, Table & Chart

### OTHER REGIONS

#### Brazil: Markets

Lubricant demand in Brazil is forecast to grow to 1.5 billion kg in 2010. A favorable outlook for all sectors with fastest growth expected in other manufacturing. In general, acceleration in manufacturing and good prospects for E&C and construction industries.

**SAMPLE TEXT**

Lubricant use in the motor vehicle aftermarket in Brazil comprised 43 percent of overall sales in 2005, and will continue to post notable gains as the country's motor vehicle park expands. There is still considerable opportunity for growth in this sector as consumers in Brazil have historically tended to focus more on repair than prevention and thus could benefit from education on proper maintenance schedules. In addition, improvement in the quality of the vehicle fleet and growing disposable incomes should boost demand for higher-performance oils, thus increasing market value. This will be aided to some extent by growth in Brazil's fast lube industry. Accelerating domestic and export trade activity will provide further growth impetus to sales of heavy duty diesel lubricants, which account for a significant share of the market.

Brazil has a well developed industrial base, with numerous manufacturers of products such as primary and fabricated metals, motor vehicles and parts, electronics and heavy machinery, all of which are heavy users of lubricating oils. Demand in the manufacturing sector is expected to grow through 2010 along with a strengthening of Brazil's economy and the country's increasing industrialization. However, manufacturing lubricant gains will decelerate somewhat due to a slowdown in motor vehicle production, which posted nearly eight percent gains during the 2000-2005 period.

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TABLE VII-5

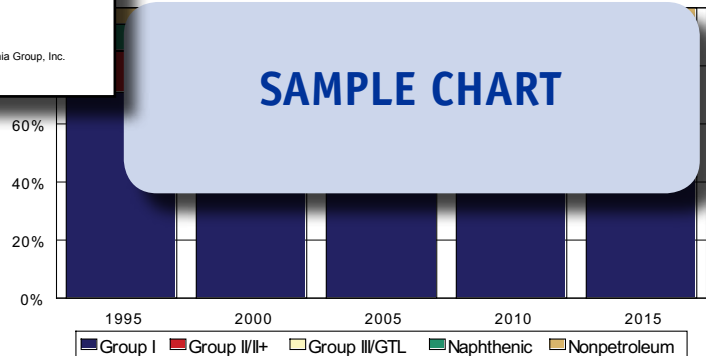
BRAZIL -- LUBRICANT DEMAND BY MARKET  
 (000 metric tons)

Item	1995	2000	2005	2010	2015
Gross Domestic Product (bil 2000\$)	1	1	1	1	1
kg lubricant/mil \$ GDP					
Motor Vehicles in Use (mil units)	2	2	2	2	2
kg MV lubricant/vehicle					
Lubricant Demand					
Motor Vehicle Aftermarket					
Manufacturing					
Other					

**SAMPLE TABLE**

CHART III-5

WORLD BASE OIL DEMAND, 1995-2015  
 (metric tons)



## Sample Profile, Table & Forecast

### COMPANY PROFILES

#### Chemtura Corporation

199 Benson Road  
 Middlebury, CT 06749  
 203-573-2000  
<http://www.chemtura.com>

Sales: \$  
 Geograp  
 Latin Am  
 15%  
 Employ

**SAMPLE  
PROFILE**

(total) US 50%, Canada 3%,  
 7%, and the Asia/Pacific region

Key Products: lubricants and fluids, polyalphaolefins, calcium sulfonate complex greases and synthetic lubricant basestocks

Chemtura, formerly Crompton Corporation, was formed when Crompton acquired Great Lakes Chemical Corporation (Indianapolis, Indiana), a specialty chemicals company, in July 2005. The Company operates in six segments: Plastic Additives, Polymers, Specialty Additives, Crop Protection, Consumer Products and Other.

The Company competes in the world lubricant market via the Plastic Additives and Specialty Additives segments. Among other products, these segments produce lubricants and fluids, polyalphaolefins and calcium sulfonate complex greases.

Plastic Additives & Specialty Additives Segments -- Chemtura's Plastic Additives segment reported sales of \$1.6 billion in 2006. The segment is a leading supplier of additives to the plastic sector and includes the activities of the Vinyl Additives unit, which produces MARKLUBE lubricants, among other products. MARKLUBE lubri

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TABLE VII-4

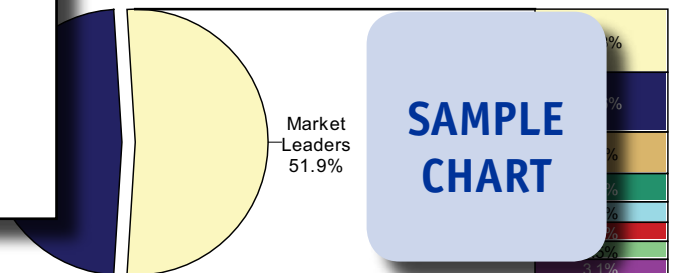
BRAZIL -- LUBRICANT DEMAND BY  
 PRODUCT & FORMULATION  
 (000 metric tons)

Item	1995	2000	2005	2010	2015
Latin America Lubricant Demand	1				15
% Brazil	5				8
Brazil Lubricant Demand					20
By Product:					
Engine Oils					20
Process Oils					20
Hydraulic Fluids					5
Metalworking Fluids					15
Other					20

**SAMPLE  
TABLE**

CHART VIII-1

WORLD LUBRICANTS MARKET SHARE, 2005  
 (37.2 million metric tons)



**SAMPLE  
CHART**



**OTHER STUDIES**

**Oilfield Chemicals**

US oilfield chemical demand will rise 4.3% per year through 2011. Gains will be driven by a rise in rig counts, more use of well stimulation and enhanced oil recovery (EOR) methods and more deepwater drilling and production. Best prospects include EOR chemicals, drilling fluids and well stimulation chemicals. This study analyzes the \$6 billion US oilfield chemical industry, with forecasts for 2011 and 2016 for formulated products and their raw materials. It also details market share and profiles major players.

#2253 ..... 10/2007..... \$4500

**World Fluorochemicals**

Global fluorochemicals demand will grow 3.1% yearly through 2011. Value gains will be aided by the positive outlook for higher value products such as HFCs and fluoropolymers. Most volume growth will occur in developing nations such as China, where fluoro-carbon use is less regulated. This study analyzes the \$13.3 billion world fluorochemical industry, with forecasts for 2011 and 2016 by product, market, world region and for 15 countries. It also evaluates company market share and profiles major producers.

#2228 ..... 07/2007..... \$5500

**World Well Stimulation Materials**

Global demand for well stimulation materials is forecast to increase 11.3% annually through 2010. Gains will be driven by high oil and gas prices coupled with maturing wells. Among the leading markets, China, Canada and Russia hold stronger prospects than the US. Proppants will be the largest and fastest growing product. This study analyzes the \$2.5 billion world well stimulation material industry to 2010 and 2015 by product, key country and world region. It also evaluates market share and profiles major players.

#2161 ..... 03/2007..... \$5400

**World Catalysts**

The world catalyst market will reach \$12.3 billion in 2010, driven by growing demand in the chemical, polymer and refining industries for more energy efficient processes and products. Polymer catalysts will grow the fastest while chemical synthesis types will remain dominant. Organometallics will lead gains by material. This study analyzes the global catalyst industry to 2010 and 2015 by material, product, market, world region and for 18 countries. It also evaluates market share and profiles industry participants.

#2125 ..... 01/2007..... \$5500

**Well Stimulation Materials**

US well stimulation material demand will grow 11% annually through 2010. Gains will be driven by efforts to maximize output of existing oil and gas wells and by increases in well drilling and completion. Proppants will remain the largest type and grow the fastest, followed by foaming and gelling agents and base fluid additives. This study analyzes the \$1.1 billion US well stimulation material industry to 2010 and 2015 by product and regional market. The study also details market share and profiles major players.

#2101 ..... 09/2006..... \$4200

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