Global Silicones Market – Products and Applications

“The report reviews, analyzes and projects the global market for Silicones for the period 2016-2025. Silicone products analyzed in this study include silicone elastomers/rubbers, silicone fluids, silicone resins, and other silicones including gels, wax etc. The study also analyzes global silicones market by applications consisting of construction, electrical & electronics, energy, transportation, personal care & consumer products, healthcare, chemicals & plastics, oil & gas, industrial machinery, paper & textiles, and other applications.”

Published: October 2019
Report Code: CP087
Pages: 534
Charts: 316
Price: $4500 Single User License, $7200 Enterprise License

Report Synopsis
Versatile features of silicones make them ideal materials for the use in number of diverse applications including construction, electrical & electronics, energy, transportation, personal care, paper & textiles and others comprising healthcare. Silicones demand growth is primarily attributed by their increasing usage in construction applications globally, also the high demand for applications in transportation, healthcare and new energy sectors.

Construction sector leads the global volume market for silicones, forecast to be 639 thousand metric tons valued at US$3.4 billion in 2019, which is projected to reach 823 thousand metric tons by 2025 at a fastest CAGR of 4.3% between 2019 and 2025. Overall Silicones market is estimated to reach 2.4 million metric tons in 2019.

Product Outline
The report analyzes the market for the following key product types of Silicones:
- Silicone Elastomers
- Silicone Fluids
- Silicone Resins
- Other Silicones

The Market for major applications of Silicones explored in this report comprise the following:
- Construction
- Electricals & Electronics
- Energy
- Transportation
- Personal Care & Consumer
- Healthcare
- Chemicals & Plastics
- Oil & Gas
- Industrial Machinery
- Paper & Textiles
- Other Applications

Analysis Period, Units and Growth Rates
The report reviews, analyzes and projects the global Silicones market for the period 2016-2025 in terms of volume in metric tons and value in US$ and the compound annual growth rates (CAGRs) projected from 2019 through 2025.

Geographic Coverage
- North America (The United States, Canada and Mexico)
- Europe (France, Germany, Italy, Russia, Spain, the United Kingdom and Rest of Europe)
- Asia-Pacific (China, India, Indonesia, Japan, South Korea, Taiwan and Rest of Asia-Pacific)
- South America (Brazil and Rest of South America)
- Rest of World (Turkey, UAE and Other Rest of World)
SAMPLE COMPANY PROFILE

ELKEM ASA (NORWAY)
Drammensveien 169, 0277 Oslo, Norway
Phone: +47 22450100
Website: www.elkem.com

Elkem Silicones France SAS (Silicones HQ)
21 Avenue Georges Pompidou, 69486 Lyon Cedex 03, France
Phone: +33 (0)4 72 13 19 00, Phone: +33 (0)4 72 13 19 93
Website: https://silicones.elkem.com

Business Overview

Established in 1904, Elkem ASA is a leading producer and supplier of silicon based metals and materials. Elkem is a fully-integrated producer with operations throughout the silicon value chain from quartz to silicon and downstream silicone specialties as well as specialty ferrosilicon alloys and carbon materials. Elkem operates through its four business units: Silicones, Silicon Materials, Foundry Products and Carbon. Elkem Silicones is one of the top manufacturers of silicone products worldwide. Elkem Silicones produces a wide range of silicone products including release coatings, engineering elastomers, specialty fluids, emulsions and resins for applications in diverse markets consisting of energy, cosmetics, electronics, aerospace, automotive manufacturing, construction, healthcare, mold-making, paper and textile coating, and personal care among others. Elkem Silicon Materials is engaged in the production and supply of silicon, microsilica, and other specialty products. Elkem’s Foundry Products division is a producer of a range of magnesium ferrosilicon alloys, inoculants, specialty ferroalloys for steel, preconditions, cover materials, recarburisers and inserts. Elkem Carbon division is a leading producer of carbon paste and specialty products to the ferroalloys, silicon and aluminum industries. Headquartered in Oslo, Norway, Elkem operates 27 production sites and sales offices across the globe, and is a wholly owned subsidiary of China National Bluestar Group.

Bluestar Silicones International was established in 2007, after the acquisition of Rhodia Silicones by China National Bluestar Corporation. Elkem was acquired by China National Bluestar in 2011. In 2015, Bluestar Silicones International was merged with Elkem, creating Elkem Silicones. Later in 2017, Elkem Silicones fully acquired Xinghou Silicones, a silicone producer in China. Elkem Silicones (formally Bluestar Silicones) division is now operating with a strong base comprising 2 upstream manufacturing sites, one located in Asia and one located in Europe, along with 8 downstream manufacturing sites and 10 R&D centers worldwide. Elkem Group (Norway) supplies raw materials to the Elkem Silicones Roussillon plant (France), where it produces chlorosilanes and then silicones. Siloxanes are then supplied to its downstream production plants across the world to be transformed into rubber silicone ingredients or compounds in the form of fluids, resins and elastomers. Elkem Silicones’ headquarters is located in Lyon, France, and operates five plants in Europe (France, Spain, Germany, and Italy); tow plants in China; one plant in USA; and one plant in Brazil.

KEY PLAYERS PROFILED

- Avantor, Inc. (NuSil™)
- CHT Germany GmbH
- Dongyue Group Limited
- Elkem ASA
- Evonik Industries AG
- Gelest, Inc.
- KCC Corporation
- Momentive Performance Materials Inc.
- Shin-Etsu Chemical Co., Ltd.
- The Dow Chemical Company
- Wacker Chemie AG
- Zhejiang Hoshine Silicon Industry Co., Ltd.
- Zhejiang Sucon Silicone Co., Ltd.
- Zhejiang Xinan Chemical Industry Group Co., Ltd. (Wynca Group)

Glance at 2019 Global Silicones Value Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World


KEY PLAYERS PROFILED

- Avantor, Inc. (NuSil™)
- CHT Germany GmbH
- Dongyue Group Limited
- Elkem ASA
- Evonik Industries AG
- Gelest, Inc.
- KCC Corporation
- Momentive Performance Materials Inc.
- Shin-Etsu Chemical Co., Ltd.
- The Dow Chemical Company
- Wacker Chemie AG
- Zhejiang Hoshine Silicon Industry Co., Ltd.
- Zhejiang Sucon Silicone Co., Ltd.
- Zhejiang Xinan Chemical Industry Group Co., Ltd. (Wynca Group)
TABLE OF CONTENTS

PART A: GLOBAL MARKET PERSPECTIVE .......... 1

1. INTRODUCTION ........................................... 1
1.1 Product Outline ........................................ 1
1.1.1 Silcones Defined ................................. 1
1.1.2 Structure and Features of Silicones ......... 1
1.1.2.1 Features Attributable to Siloxane Bonds .... 1
1.1.2.2 Features Attributable to Molecular Structure 1
1.1.3 Production Process of Silicones ............... 1
1.1.3.1 Chlorosilanes Synthesis ................. 1
1.1.3.2 Chlorosilanes Hydrolysis ............ 1
1.1.3.3 Condensation Polymerization .......... 1
1.1.4 Types of Silicones ....................... 1
1.1.4.1 Silicone Fluids ............................ 1
1.1.4.2 Silicone Elastomers (Rubbers) ......... 1
1.1.4.2.1 High Consistency Rubber (HCR) or High Temperature Vulcanizing Rubber (HTV) .... 1
1.1.4.2.2 Two-component Room Temperature Vulcanizing Rubber (RTV-1) .... 1
1.1.4.2.3 One-component Room Temperature Vulcanizing Rubber (RTV-2) .... 1
1.1.4.2.4 Silicone Gels ......................... 1
1.1.4.2.5 Silicone Wax Furniture .............. 1
1.1.5 Applications of Silicones .................... 1
1.1.5.1 Construction .............................. 1
1.1.5.2 Electrical & Electronics ................. 1
1.1.5.3 Energy ...................................... 1
1.1.5.4 Transportation ............................ 1
1.1.5.5 Personal Care & Consumer Products .... 1
1.1.5.6 Healthcare ................................ 1
1.1.5.7 Chemicals & Plastics .................. 1
1.1.5.8 Oil & Gas ................................ 1
1.1.5.9 Industrial Machinery .................... 1
1.1.5.10 Paper & Textiles ....................... 1
1.1.5.11 Other Applications .................... 1

2. KEY MARKET TRENDS ............................. 2
2.1 Silicones Still Deriving Maximum Benefit from the Construction Industry .... 2
2.2 European Silicone Industry to be Subject to Impending Regulations .......... 2
2.3 Demand for Liquid Silicone Rubber on the Upswing .................. 2
2.4 Silicone Biocompatibility a Boon for the Healthcare Industry .......... 2
2.5 Automotive Applications of Silicones Gain Traction .................. 2
2.6 Silicones Proving Highly Reliable for Clean Energy Applications .......... 2

3. KEY GLOBAL PLAYERS ......................... 3
Avantor, Inc. (NuSil™) (United States) ................. 3
CHT Germany GmbH (Germany) ................. 3
Dongyue Group Limited (China) ................. 3
Elkem ASA (Norway) ......................... 3
Evonik Industries AG (Germany) ................. 3
Gelest, Inc. (United States) ................. 3
KCC Corporation (South Korea) ................. 3
Momentive Performance Materials Inc. (United States) ................. 3
Shin-Etsu Chemical Co., Ltd. (Japan) ................. 3
The Dow Chemical Company (United States) ................. 3
Wacker Chemie AG (Germany) ................. 3
Zhejiang Xinan Chemical Industry Group Co., Ltd. (China) ................. 3
Zhejiang Sucon Silicone Co., Ltd. (China) ................. 3
Zhejiang Xian Chemical Industry Group Co., Ltd. (Wynca Group) (China) ................. 3

4. KEY BUSINESS AND PRODUCT TRENDS ............ 4
BRB Silanol® 533 ESO Silane Introduced ................. 4
Korean Specialty Silicone Gels Manufacturer Basl Chemie Acquired by Elkem .... 4
Momentive Introduces New Silicones Technologies ................. 4
ACC Silicones Takes Up New Identity ................. 4
WACKER Showcases Liquid and Solid Silicone Rubber Grades ................. 4
Chemifilm appointed South African Distributor by BRB .... 4
Groundbreaking Ceremony for New Plant Held by Dow in China ................. 4
Dow’s Next Generation Silicone Optical Bonding Materials for Displays Unveiled ................. 4
Gelent Introduces New Alternative to DS Cyclopentasilicone Fluids ................. 4
WACKER’S Chinese Silicone Elastomer Production Capacity Expanded ................. 4
Petronas Chemicals Group Bd to Take Over BRB ..... 4
Dow Introduces an Innovative Flexible, Electrically- Conductive Silicone Adhesive ................. 4
Momentive Acquired by SIR Partners, KCC Corporation and Wonil Qnc Corp .......... 4
BRB Introduces New Silane BRB Silanol® 145 for the Asian Market ................. 4
Dow Separated from DowDuPont ................. 4
WACKER’S BELSIL® Eco Product Line Extended ................. 4
AB Specialty Silicones Expands Production Capacity by Adding New Equipment ................. 4
BRB’s International BV’s Portuguese Distribution to be Handled by Comercial Quimica Massão ................. 4
Ricardo Molina Appointed BRB’s Distributor for Algeria and Morocco ................. 4
Swiss Distribution of BRB Silicones Given to Stockmeier Chemie, AG ................. 4
Dow’s 3D-Printable Liquid Silicone Rubber Used in Ecco’s Advanced Customized Footwear ................. 4
Elkem Silicones Opens New R&D Center ................. 4
WACKER Expands Global Silicone Rubber Production Capacities ................. 4
WACKER and Fuji Polymer Industries in Collaboration ................. 4
Azelis Americas and Momentive Performance Materials Expand Distribution Agreement ................. 4
Bayer Launches Multifunctional Silicone for Aqueous-Based Skin Care Products ................. 4
Momentive’s Multi-Functional Film Former Launched ................. 4
Silicone PSA Introduced ................. 4
Dow Corning Rebrands Silicone Sealants ................. 4
TUV SUD Certifies WACKER’S Process for Manufacturing Silicone Fluids Based on Biomethanol ................. 4
ICM Products Granted ISO 9001:2015 Certification by NSF- ISRS ................. 4
WACKER’S New Functional Silicone Fluids in India Opened ................. 4
Azelis Appointed Sole Australian Distributor of Momentive’s Silicone Specialties for Personal Care ................. 4
BRB Debuts New Silicone Microenclosures for Home and Car Care Sectors ................. 4
BRB’S New Silane for Hydrophobizing and Crosslinking Applications Introduced ................. 4
Evonik’s TEGO RC Silanes For Unpainted Labelle Unveiled ................. 4
WACKER Conferred with SolarPACES Innovation Award for New Heat-Transfer Fluid ................. 4
Dow Performance Silicones’ New Silicone Additive for Architectural Façade Coatings Launched ................. 4
WACKER Launches SilForce SL7562S Base Polymer for Medical Applications ................. 4
WACKER’S Chinese Production and R&D Capabilities Further Expanded ................. 4
BRB Expands Food Grade Silicone Oil Line ................. 4
ACC Silicones’ New Silolithem® AS1406 Launched ................. 4
WACKER Launches Non-Pot-Cure Liquid Silicone Rubber for a Variety of Applications ................. 4
Evonik’s Shanghai-Based Specialty Silicones Facility Opened ................. 4
BRB Introduces a Novel High Performance Phenyl Modified Silicone Fluid Blend ................. 4
ICM Silicones Group Acquired by CH Group ................. 4
Shin-Etsu Chemical to Expand US-Based Silicones Production Capacity ................. 4
Elkem Acquires Two Chilean Facilities ................. 4
WACKER'S R&D Center for Silicones Inaugurated in the US ... 4
Dow Enters into Agreements in Saudi Arabia ................. 4
Gelent’s STAVE®E610 Enhanced Amine Functional Silane Launched ................. 4
Kaneka Europe Production Capacity of Modified Silicone Polymer Increased ................. 4
Momentive Launches Self-Bonding Liquid Silicone Rubber ................. 4
WACKER and STC Silicones in a Co-Branding Agreement ................. 4
WACKER’S Sustainable Silicone Resins for New Weathering- and Heat-Resistant Coatings Showcased ................. 4
Dispersions and Silicones for Easy-to-Clean Applications and Anti-Graffiti Coatings Released by WACKER ................. 4
Momentive’s Silicone-Based Gel for Aqueous-Based Skin Care and Cosmetic Formulations Launched ................. 4
WACKER Launches New High Performance Phenyl-Based Polydimethylsiloxane Resin for 1K Protective Coating Applications ................. 4
WACKER’S Brazilian Production of Silicones Expanded ................. 4
BRB’s LowViscosity MS Silicone Fluid for Formulators Launches ................. 4
Momentive Takes Over Sea Lion’s Silane Production Plant ................. 4
Rogers Takes Over Diversified Silicone Products, Inc. ................. 4
Avantor Performance Materials, Inc. and Nusil Technology, LLC Merge ................. 4
Gelest Introduces SVA™200 Activated Acrylate Silane ................. 4
Shin-Etsu Chemical’s Silicones Operations Expanded ................. 4
WACKER Launches Silicone Sealant for Electronic Applications ................. 4
Highly Transparent Liquid Silicone Rubber for Optical Applications Introduced by WACKER ................. 4
WACKER Introduces New Silicone Rubber Grades for Encapsulating LEDs Introduced ................. 4
Next-Generation Range of Liquid Silicone Rubbers (LSRs) Introduced by NuSil ................. 4
WACKER Launches Liquid Silicone Elastomers Introduced by Momentive ................. 4
Momentive’s Multi-Functional Film Former Launched ................. 4
Motive Launches SilForce SL7562S Base Polymer ................. 4
KRAHN CHEMIE and Nanjing SSIB Silicones Enter into a Sales and Distribution Alliance ................. 4
BRB Instigates Silicone Synthesis Plant in Malaysia ................. 4
Dow Chemical to Shut Down Two Silicone Manufacturing Facilities ................. 4

Global Silicones Market – Products and Applications
October 2019 | 534 Pages | 316 Charts | Price $4500

Click here to buy the report
8.5.6 Taiwan ....................................................... 457
8.5.6.1 Taiwanese Silicones Market Overview by Type ...... 458
8.5.6.2 Taiwanese Silicones Market Overview by Application ........................................ 462
8.5.7 Rest of Asia-Pacific ................................. 466
8.5.7.1 Rest of Asia-Pacific Silicones Market Overview by Type ........................................ 467
8.5.7.2 Rest of Asia-Pacific Silicones Market Overview by Application ................................ 471
9. SOUTH AMERICA ............................................ 475
9.1 South American Silicones Market Overview by Geographic Region ........................................ 476
9.2 South American Silicones Market Overview by Type .......................................................... 480
9.3 South American Silicones Market Overview by Application ............................................. 484
9.4 Major Market Players ..................................... 488
Elkem Brasil Ltda. (Brazil) ........................................ 488
Momentive Performance Materials Indústria de Silicones Ltda (Brazil) ........................................ 488
Wacker Quimica do Brasil Ltda. (Brazil) ........................ 489
9.5 Country-wise Analysis of South American Silicones Market .................................................. 490
9.5.1 Brazil .......................................................... 490
9.5.1.1 Brazilian Silicones Market Overview by Type ...................................................... 491
9.5.1.2 Brazilian Silicones Market Overview by Application .............................................. 495
9.5.2 Rest of South America .................................. 499
9.5.2.1 Rest of South America Silicones Market Overview by Type ........................................ 500
9.5.2.2 Rest of South America Silicones Market Overview by Application ............................ 504
10. REST OF WORLD ............................................ 508
10.1 Rest of World Silicones Market Overview by Geographic Region ........................................ 509
10.2 Rest of World Silicones Market Overview by Type .......................................................... 513
10.3 Rest of World Silicones Market Overview by Application .................................................. 517
10.4 Major Market Players ...................................... 521
Ravago Petrokimya Uretim A.S. (Turkey) ..................... 521
TERRA Silicone Technologies, LLC (Turkey) ............... 522
Ultrakim Kimya Sanayi ve Ticaret A.S. (Turkey) .......... 525

PART C: GUIDE TO THE INDUSTRY ............... 526
1. NORTH AMERICA ........................................ 526
2. EUROPE ...................................................... 527
3. ASIA-PACIFIC ............................................. 529
4. REST OF WORLD .......................................... 532

PART D: ANNEXURE ....................................... 533
1. RESEARCH METHODOLOGY .......................... 533
2. FEEDBACK .................................................. 535

About Industry Experts

Industry Experts’ market research, backed by years of experience and an analytical team dedicated to providing the most optimal business solutions, has been specifically designed to provide a variety of benefits, both current and future. Our leading-edge publications make the life easy for corporate strategists, investors, analysts and researchers, startups, consultants, financial and banking executives, academicians and many more. The company also provides customized research reports to cater the needs of the industry.

Business intelligence provides the critical link between comprehending prevailing market conditions and devising strategies to maximize parameters, such as revenues, profits and return on investment in order to gain market share. The significance of market research can be largely understood through the range of factors that impact businesses. These can comprise market size (current and projected), geographic market reach and demand and supply scenario, to name a few. Our ongoing quest to collect up to date and accurate information by conducting online surveys, personal interviews, taking the opinions of senior level executives will enable us to serve our clients better in every possible aspect.

More about Industry Experts

Industry Experts, Inc.
14726 Ramona Ave, Suite S2
Chino, CA 91710
Greater Los Angeles
United States
Phone: +1-320-iXPERTS (497-3787)
Email: info@industry-experts.com

India Office
1-7-19/C, Street No. 8, Habsiguda
Hyderabad – 500007
India
Phone: +91-40-4018-1314
Fax: +91-40-2715-7746
Website: http://industry-experts.com

Click here to buy the report