

Carbon Fibers & Carbon Fiber Reinforced Plastics (CFRP) - A Global Market Overview

“The report reviews, analyzes and projects the global market for Carbon Fibers and Carbon Fiber Reinforced Plastics (CFRP) for the period 2014-2024, in terms of volume in metric tons and value in US\$ million. Application areas analyzed in the study include aerospace & defense, sporting goods & leisure, automotive, wind energy, pressure vessels, construction & infrastructure, molding compounds, oil & gas and other applications.”

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Report Synopsis

The automotive industry is primed to be the fastest growing sector for carbon fibers and OEMs operating in this area are likely to employ a combination of steel, aluminum and composites based on demands of mechanical requirements and costs. The other sector likely to contribute to significant growth in demand for carbon fibers is pressure vessels that are used for storing and transporting compressed and liquefied natural gas in automotive and fleet applications, with regions in Asia, South America and Europe being the main drivers.

Aerospace & Defense constitutes the largest end-use application for Carbon Fiber consumption globally, with a demand of 16.5 thousand metric tons in 2017, accounting for a share of 22.4%. The worldwide consumption of carbon fibers is estimated to reach 132.7 thousand metric tons in 2018.

- The report also provides a complete overview of global carbon fiber installed production capacities from 2014 to 2020 segmented by carbon fiber producer (by subsidiary and plant location), region, country, tow size (large, small) and carbon fiber type (pitch, PAN)
- Carbon Fibers to Gain Wider Acceptance in Mainstream Automobiles
- Carbon Fiber Composite Pressure Vessels to Witness Significant Growth
- Research and Commercialization Initiatives in Low-Cost Carbon Fiber
- Key business trends focusing on product innovations/developments, capacity expansions, M&As, JVs and other recent industry developments
- Major companies profiled – 161
- The industry guide includes the contact details for 331 companies

Product Outline

The report analyzes the market for carbon fibers and carbon fiber reinforced plastics (CFRP)

End-use Applications of Carbon Fibers and CFRP analyzed comprise the following:

- Aerospace & Defense
- Sports & Leisure
- Wind Energy
- Automotive
- Pressure Vessels
- Construction & Infrastructure
- Molding Compounds (or Electrical & Electronic)
- Oil & Gas
- Other Industrial Applications

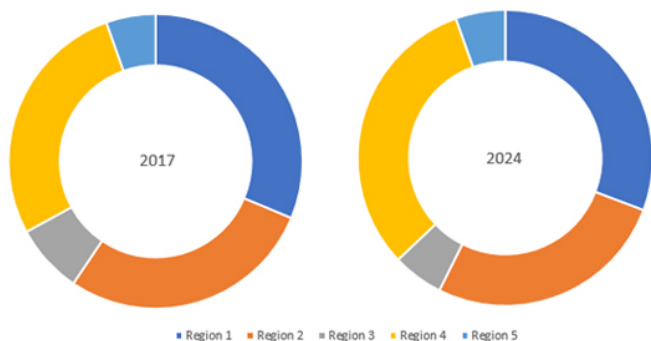
Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global carbon fibers and carbon reinforced plastics (CFRP) market for the period 2014-2024 in terms of volumes in metric tons and market value in US\$ and the compound annual growth rates (CAGRs) projected from 2017 through 2024

Geographic Coverage

- **North America** (The United States and Canada)
- **Europe** (Denmark, France, Germany, Italy, Spain, The United Kingdom and Rest of Europe)
- **Japan**
- **Asia** excluding Japan (China, India, South Korea and Rest of Asia)
- **Rest of World** (Brazil, Russia, Turkey and Other ROW)

Global Carbon Fiber Market by Geographic Region 2017 and 2024



Source: Industry Experts, Inc. <http://industry-experts.com>

Research Findings & Coverage

- The global market for carbon fibers and carbon fiber reinforced plastics (CFRP) is analyzed in this report with respect to end-use applications, geographic regions and countries
- The study extensively analyzes each major end-use application of carbon fiber with market snapshot for the analysis period

SAMPLE COMPANY PROFILE

MITSUBISHI CHEMICAL CORPORATION (JAPAN)

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Website: www.m-chemical.co.jp

Carbon Fiber and Composite Materials Department

Phone: +81-3-6748-7357
Fax: +81-3-3286-1341

Business Profile

Mitsubishi Chemical Corporation was established in April 2017 by integrating the operations of former companies Mitsubishi Chemical, Mitsubishi Plastics and Mitsubishi Rayon. Mitsubishi Chemical Corporation engages in the manufacture and marketing of various chemical products in Japan and internationally. Mitsubishi Chemical business segments and products include Chemicals (Industrial Chemicals, Basic Petrochemicals, Solvents, MMA Monomer & Derivatives, Acrylonitrile & Related Products), Film & Sheet/Molding/Composite (Film & Sheet, Molded Products & Components, Supplemental Materials & Adhesives, Composite Materials, Synthetic Paper, Materials Used in Production), Information/Electronics/Display/Battery (Photovoltaic Materials, Battery Materials, Recording Materials and Recording Media, Display Materials, Imaging Materials, Lighting Materials, Information Materials, Semiconductor Materials, Insulating Materials), Fibers & Textiles (Acrylic Fiber, Acetate Fiber, Polyester Fiber, Polypropylene Fiber, Composite Fiber), Agriculture/Food Materials/Healthcare (Plant Growing System, Agricultural Materials, Food Ingredients, Health Care), Polymers/Resins/High Performance Chemicals (Commodity Polymers & Raw Materials, Engineering Plastics, Elastomers, PMMA, Carbon Fiber Reinforced Plastic, High Performance Polymers & Raw Materials, Curable Materials such as Monomers, Oligomers and Polymers, Catalyst for Chemical Reaction, Additives & Modifiers, Coating Materials), Carbon Materials/Carbon Fibers & Composite Materials (Carbon Materials, Carbon Fiber & Composite Materials), Alumina Fiber/Inorganic Products (Alumina Fiber, Light Metal Products, Zeolite) and Environment & Living Solutions (Water Treatment, Water Purifier, Separation Materials, Synthetic Adsorbents, Civil Engineering Materials, Building Materials, Equipment & Machinery, Logistics Materials, HPLC Column).

Mitsubishi Chemical's Carbon Fibers & Composite Materials department is engaged in the development, production and supply of PAN-based carbon fiber, pitch-based carbon fiber and carbon fiber composite products. Mitsubishi Chemical's principle operating companies in the field of carbon fiber production include Mitsubishi Chemical Carbon Fiber and Composites, Inc. (USA, formerly Grafil Inc.), Mitsubishi Chemical Corporation (Japan), MCC - SGL Precursor Co., Ltd. (Japan), and Evanston Carbon Fibers LLC (USA). Mitsubishi Chemical's regular tow carbon fiber annual production capacity in Japan and USA is 13,300 metric tons. In 2017, Mitsubishi Chemical has acquired the large tow carbon fiber manufacturing plant SGL Carbon Fiber LLC, USA from SGL Group, Germany to form Evanston Carbon Fibers, LLC with an annual production capacity of 1,000 metric tons.

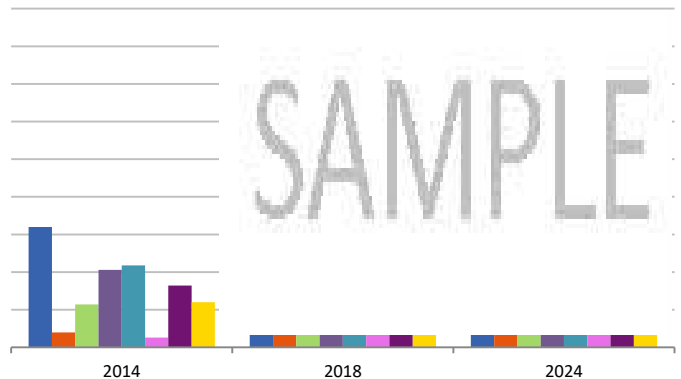
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SAMPLE TABLE/CHART

Glance at 2017 Global Carbon Fiber Reinforced Plastics (CFRP) Market Share (%) by Geographic Region – North America, Europe, Japan, Asia and Rest of World



North American Carbon Fiber Reinforced Plastics (CFRP) Market Analysis (2014-2024) by End-use Application – Aerospace & Defense, Sports & Leisure, Wind Energy, Automotive, Pressure Vessels, Construction & Infrastructure, Electrical & Electronics and Other Industrial in Metric Tons



KEY PLAYERS PROFILED

Carbon Fiber Manufacturers

- Cytec Engineered Materials Inc. (Solvay Group)
- DowAksa
- Formosa Plastics Corporation
- Hexcel Corporation
- Hyosung Corporation
- Jiangsu Hengshen Co., Ltd.
- Kangde Composites Co., Ltd
- Kureha Corporation
- Mitsubishi Chemical Corporation
- Osaka Gas Chemicals Co Ltd.
- SGL Carbon SE
- Teijin Limited
- Toray Industries, Inc.
- Weihai Guangwei Composites Co., Ltd.
- Zhongfu Shenying Carbon Fiber Co., Ltd.
- Zoltek Companies Inc

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