

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

*“The report reviews, analyzes and projects the global market for Carbon Fibers & Carbon Fiber Reinforced Plastics (CFRP) for the period 2017-2026. Application areas analyzed in the study include aerospace & defense, sports & leisure, automotive, wind energy, pressure vessels, construction & infrastructure, molding compounds, oil & gas and other applications.”*

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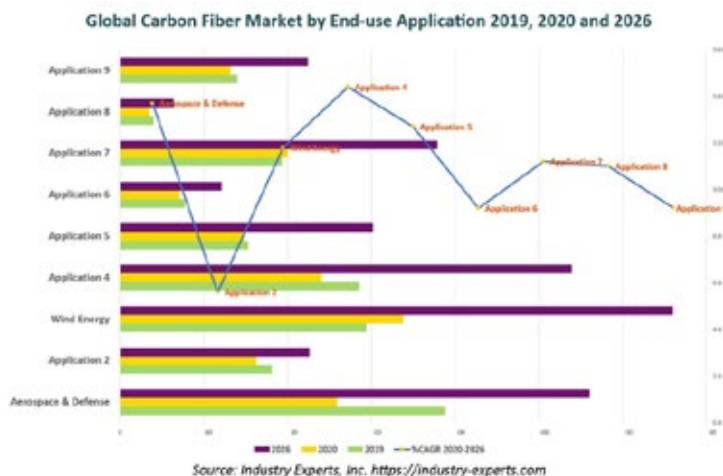
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### Report Synopsis

Global demand for Carbon Fibers was declined sharply in 2020, dropping by 9.5% YOY in volume terms and 15.4% in value terms, due to reduction in demand for Carbon Fibers across major application areas amid the impact of coronavirus pandemic. Aerospace, automotive, and oil & gas applications have been hit hard by the pandemic during 2020.

COVID-19 pandemic has impacted the production rates of aircrafts significantly during 2020 as demand for new aircrafts drastically decreased. Additionally, the parked fleet of commercial aircraft reached record levels globally during 2020 as passenger traffic fell and airlines reduced capacity. Each new generation of commercial aircraft has used increasing quantities of advanced composites, replacing metals and other materials. This follows the trend previously seen in military fighter aircraft where advanced composites may now exceed 50% of the weight of the airframe.



### 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 provides market size and extensively analyzes each major end-use application of carbon fiber with market snapshot for the analysis period

- Zero Emissions and Weight Reduction Targets to Drive Adoption of Carbon Fibers in Mainstream Automobiles
- Demand for Carbon Fiber in Aerospace Industry Bolstered by Greater Acceptance in Commercial Aircrafts
- Burgeoning Opportunities for Carbon Fiber in High-pressure Gas Storage Vessels
- Recent Advances in Low-Cost Carbon Fiber Manufacturing
- Key business trends focusing on product innovations/developments, capacity expansions, M&As, JVs and other recent industry developments
- Major companies profiled – 154
- The industry guide includes the contact details for 337 companies

### Product Outline

The report analyzes the market for End-use Applications of Carbon Fibers and CFRP analyzed including:

- 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 2017-2026 in terms of volumes in metric tons and market value in US\$ and the compound annual growth rates (CAGRs) projected from 2020 through to 2026 with a special focus on the COVID-19 Pandemic impact and Y-o-Y growth for 2019-2020

### 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)

## SAMPLE COMPANY PROFILE

### MITSUBISHI CHEMICAL CORPORATION

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Website: www.m-chemical.co.jp

#### Carbon Fiber and Composite Materials Department

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Fax: +81-3-3286-1341

#### Business Overview

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.

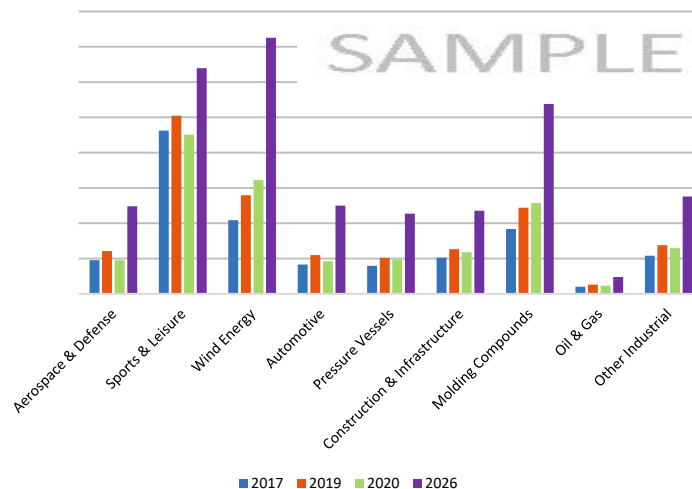
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## SAMPLE TABLE/CHART

Glance at 2020 Global Carbon Fiber Reinforced Plastics (CFRP) Market Share (%) by Geographic Region – North America, Europe, Japan, Asia and Rest of World



Asian Carbon Fiber Market Analysis (2017-2026) by End-Use Application – Aerospace & Defense, Sports & Leisure, Wind Energy, Automotive, Pressure Vessels, Construction & Infrastructure, Molding Compounds, Oil & Gas and Other Industrial Applications in Metric Tons



## KEY PLAYERS PROFILED

#### Carbon Fiber Manufacturers

- DowAksa
- Formosa Plastics Corporation
- Hexcel Corporation
- Hyosung Advanced Materials
- Jiangsu Hengshen Co., Ltd.
- Kureha Corporation
- Mitsubishi Chemical Corporation
- Osaka Gas Chemicals Co Ltd.
- SGL Carbon SE
- Solvay SA
- Teijin Limited
- Toray Industries, Inc.
- UMATEX, Rosatom State Corporation
- Weihai Guangwei Composites Co., Ltd.
- Zhongfu Shenyang Carbon Fiber Co., Ltd.

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