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.”

Published: May 2018
Report Code: CP015
Pages: 466
Charts: 145
Price: $4950 Single User License, $7650 Enterprise License

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.

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)
SAMPLE COMPANY PROFILE

MITSUBISHI CHEMICAL CORPORATION (JAPAN)
1-1, Marunouchi 1-Chome, Chiyoda-ku, Tokyo 100-8251
Phone: +81-3-6748-7300
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’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.
Hexagon Composites Develops Hydrogen Based Storage Tank for Toyota
158
Worthington Industries Launches Type 3 Rail Mount CNG Fuel System...
158
Airtech International Introduces Beta TX 670 DISCO Prepreg ..... 159
Goodrich, Award Winning Submarine Made using CARBIS®
159
Solvay Signs Supply Agreement with Boeing ......................... 146
Solvay and dBeotech Enter into Partnership with USA
146
Bosbied and Skeleton ........................................................ 146
Carbon Fiber Drone Project Agreement Signed by Kangde and
Tengda Technology .............................................................. 146
Launch of ELG’s CARBIS® Range of Recycled Carbon
Fiber Products at Auto World 2018 Expo ......................... 147
Plasan to Produce the First Commercial Composite Ramps and
Bridgeplates for Amtrak ..................................................... 147
Zoltek’s Carbon Fiber Make a Mark in New Unihit Car ......... 146
Hexcel Acquires Aerospace & Defense Business of Oxford
Performance Materials ..................................................... 148
GM’s Redesigned Pickup Beds Use Carbon Fiber .......... 148
UMATEX Group Research Center Commissions Carbon
Fiber Pilot Line ................................................................. 148
TenCate and Shape form an Alliance on Press Molding of
Snap Cure Prepregs ......................................................... 148
Hyundai Files Patents for Carbon Fiber Reinforced Plastic
(CFRP) Front End ............................................................ 149
Tory to Establish Edexcel Fiber Facility for Centars Ltd. ..... 149
Teijin to Establish Carbon Fiber Production Center in South
Carolina, US ................................................................. 149
ADEKA Corporation and GH Craft Ltd Develop World’s First
Fiber-to-Composite (FTOC) Molding Process .................... 150
Toho Tenax Develops Carbon fiber based Multi-Tree
Material/Root Cover for Fuel Cell Bus .................. 150
Audi Sport GmbH Utilizes CFRP from Mitsubishi Chemical
Corporation ................................................................. 150
SGL Carbon SE Acquires BMW Group’s Interest in the Joint
Venture SIGMA Automotive Carbon Fibers ............... 151
Bertrandt AG and SGL Group Develops New
InnovativeCFRP Technology ‘Carbon Carrier’ ................. 151
SGL Group Acquires 50-Percent Share of BENTELER Carbon
Composites Beteiligungs-GmbH ......................................... 151
Solvay Acquires European Carbon Fiber GmbH ............. 152
Solvay and Mubadala Development Company Enter into
Joint Venture ................................................................. 152
ELG and Land Rover BAR to Promote the Most Economic
Materials Contract ......................................................... 154
Australia’s First Entirely Home Grown Carbon Fiber
Produced by CSIRO ....................................................... 153
Kangde and BAIC to Build Biggest Industrial Base for
Carbon Fiber Auto Parts .................................................. 153
Hexagon Lifting Supplies TITAN Trailers for Centars Ltd. .... 153
Hexcel Corporation and UTC Aerospace Systems Extend
Carbon and Glass Prepreg Systems Supply Agreement
through 2030 ................................................................ 153
Hexcel and Vectas Expand Composite Materials Supply
Agreement for Wind Blades ........................................... 154
Hexcel Corporation Acquires Strucitl SA ....................... 154
Zoltek, KraussMaffei Technologies and Lanexx Develop
Carbon Fiber Vehicle Parts ............................................ 154
WPAG Group Acquired by ALBIS PLASTIC ..................... 155
Hexcel Corporation Join Forces with Cranfield University
and Metisse Motorcycles .................................................. 155
Hexcel Corporation Unveils HexPy® M770H Prepreg ....... 155
Hexcel Corporation to Start Multi AXIAL Infused Materials
(MAXIM) R&D Project ..................................................... 156
Reliance Industries Ltd Acquires Kemrock Industries &
Exports Limited ............................................................ 156
Kangde Group Plans World’s Biggest Carbon Fiber Plant in
China ............................................................................ 156
Hengshen and Bombardier form Carbon Fiber Prepreg
Supply Pact ..................................................................... 156
CRTC and ELG Develops Recycled Carbon Fiber
Composites-based Automotive Seatback ..................... 157
TenCate Showcases New Thermoplastic and Thermoset
Prepreg Technologies ..................................................... 157
Gurit Cleat Aerospace Qualification ...................... 157
Hexagon Composites Expand its Hydrogen Cylinders
Business ........................................................................... 158

Oxen to Broaden its Patented i45® Spread Tow Weaving
Capacity ......................................................................... 171
Strata, Reliance Sign MoU on Aerospace Composites
Collaboration ................................................................. 172
ELG Carbon Fibre, Adesso Advanced Materials Sign MoU
to Develop Recycled Carbon Fibers for Automotive
Use .................................................................................. 172
Quatro to be merged into AIM Aerospace Corporation .... 172
Teijin Acquires Continental Structural Plastics Holdings
Corporation ................................................................. 173
Mitsubishi Chemical Corporation Acquires C.P.C. SRL .... 173
Mitsubishi Rayon Co., Ltd to Acquire SGL Carbon Fibers
LLC .............................................................................. 173
Launch of A&P’s TX-45 as a Standard Product .................. 173
Hexcel Corporation Forms Strategic Alliance with Carbon
Conversions Inc .............................................................. 174
Gurit Launches Two New Epoxy Prepreg Materials ....... 174
Gurit ReSigns Contract with Diehl Aircabin ................. 174
Hexcel Supplies HiMax™ Carbon Fiber Reinforcements to
Bright Light Structures ................................................... 175
Hexcel Corporation Receives Advanced Composites Supply
Contract from Airbus Group ............................................ 175
PolyOne Develops CFRP Underbody Brace for C7 Chevrolet
Corvette ................................................................. 175
AVANGO’s eXergy Energy & Environment Acquired by
Hexagon Composites ..................................................... 176
Brompton Bikes’ Harvey’s New Production Capacity ........ 176
Gurit Bags Four Year Automotive Carbon Fiber Composites
Supply Contract ............................................................ 176
SAERTEX Group and Bombardier Enter into Agreement
Fiberline Composites A/S and Mitsubishi Rayon Form Joint
Venture in China ............................................................ 177
Lehmann&Voss&Co Opens New Plant in China .............. 177
SGL Group Opens Carbon Fiber Precursor Line in Portugal .... 177
Lamborghini and Mitsubishi Rayon to Partner on R&D into
Mass Manufacture of Carbon Fiber Shells and Panels .... 178
xperion Energy & Environment’s X-STORE Type 4
Hydrogen Cylinders for Alstom’s Regional Trains ........... 178
Opening of Tectherm ES’ Delware Compounding Facility ... 178
First 2.7m Wide Recycled Carbon Mats Produced by ELG
Nonwoven Machine ......................................................... 179
Solvay Establishes New Production Center in South
Carolina, US .................................................................... 179
Hexagon Lincoln Develops Type 4 cylinders ................. 179
Mitsui Joined Forces with FE to Broaden its Presence in
the Automotive Carbon Fiber Market ......................... 180
Unveiling of Kastam’s Carbon Fiber Program for Current
Rolls-Royce Models ...................................................... 180
LM Wind Power Develops World’s Longest Blade ........... 180
Mainstay Fuel Technologies, Inc Selects Luxfer’s G-STOR
Go Cylinders .................................................................. 180
ELG Renewable and IACMI Collaborate for Accelerated
Plans for Expansion into the US ..................................... 181
Flag Raising Ceremony for the First Phase of Zhong Xin
Carbon Fiber Project Held .............................................. 181
Northrop Grumman Choses NORDAM’s NTR Division to
Supply Carbon Fiber Structures for F-35 Lightning II Fighter 181
Toray Supplies Carbon Fiber TORAYCA® and TORAYCA®
Prepreg for Airbus .......................................................... 182
Mitsubishi Rayon to Expand Large-tow Carbon Fiber
Production Capacity ....................................................... 182
Opening of Lamborghini’s Advanced Composite Structures
Laboratory ................................................................. 182
Luxfer Gas Cylinders Unveils G-Stor® Go Type 4 Carbon
Composite Cylinders ...................................................... 183
Hexagon Composites Enter into Joint Venture Agreement
with Siddha Gas Tech Pvt Ltd ............................................ 183
Hexcel Corporation Opens New Composite Materials
Center in Duxford, UK ...................................................... 183
Dow Akra and Turkish Aerospace Industries Jointly
Establish Dow Akra Global Composites Center ............ 184
LM Wind Power Establishes Wind Turbine Blade in India .... 184
Mitsui, Toray, and Hexagon Lincon Enter into Joint
Venture Agreement to Manufacture Carbon Fiber
Reinforced High-Pressure Hydrogen Cylinders ............. 184
Hexcel’s HiMax® Carbon Fiber Multiaxial Fabrics Displays
at GAIL Munich 2016 in UK ............................................ 185
TenCate Reach Composites Material Supply Agreement
with Marenco SWiss Helicopter ..................................... 185
1.1 North American Carbon Fiber Reinforced Plastics

1.4 Major Carbon Fiber Manufacturers

1.6 Major Carbon Fiber Composite Manufacturers

2.1 European Carbon Fiber Reinforced Plastics (CFRP) Market Overview by End-use Application

2.2 European Carbon Fiber Market Overview by End-use Application

2.3 European Carbon Fiber Market Overview by Country

2.5 Major Carbon Fiber Recyclers

2.7 Major Carbon Fiber Composite Manufacturers

3.1 Japan Carbon Fiber Reinforced Plastics (CFRP) Market Overview by End-use Application

3.2 Japan Carbon Fiber Market Overview by End-use Application

3.3 Major Carbon Fiber Manufacturers

3.4 Major Carbon Fiber Composite Manufacturers

4.1 Asian Carbon Fiber Reinforced Plastics (CFRP) Market Overview by End-use Application

4.2 Asian Carbon Fiber Market Overview by End-use Application

4.4 Major Carbon Fiber Manufacturers
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.