

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

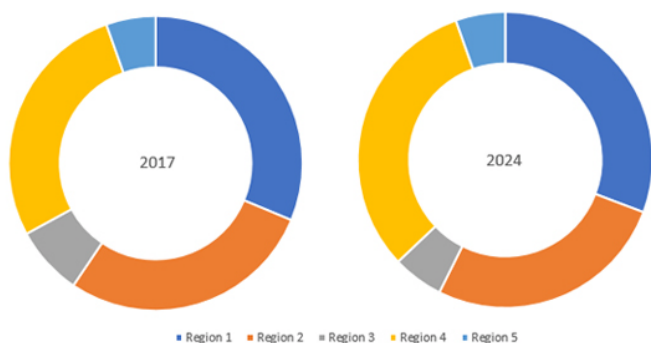
Analysis Period, Units and Growth Rates

- 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.

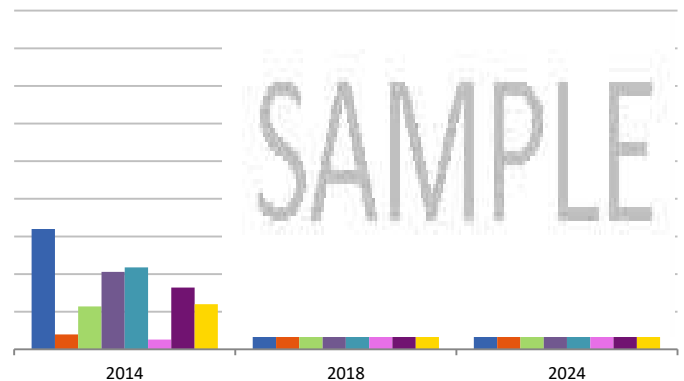
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SAMPLE TABLE/CHART

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 Shenyang Carbon Fiber Co., Ltd.
- Zoltek Companies Inc

.....more

TABLE OF CONTENTS

PART A: GLOBAL MARKET PERSPECTIVE 1

1. INTRODUCTION1

1.1 Product Outline..... 4

1.1.1 Carbon Fibers..... 4

1.1.1.1 Structure and Properties of Carbon Fibers..... 4

1.1.1.2 Classification of Carbon Fibers 5

1.1.1.2.1 Classification Based on Raw Materials Used..... 5

1.1.1.2.1.1 PAN-Based Carbon Fiber 5

1.1.1.2.1.2 Pitch-Based Carbon Fiber 6

1.1.1.2.2 Classification Based on Mechanical Performance 6

1.1.1.2.3 Classification Based on Secondary Processing..... 6

1.1.1.3 Manufacturing Process of Carbon Fibers 8

1.1.1.3.1 PAN-Based Carbon Fiber 8

1.1.1.3.1.1 Polymerization 8

1.1.1.3.1.2 Spinning 8

1.1.1.3.1.3 Oxidation 9

1.1.1.3.1.4 Carbonization 9

1.1.1.3.1.5 Surface Treatment and Sizing 10

1.1.1.3.2 Pitch-Based Carbon Fiber..... 10

1.1.1.3.2.1 Pitch Reforming and Refining..... 11

1.1.1.3.2.2 Spinning 11

1.1.1.3.2.3 Oxidation 11

1.1.1.3.2.4 Carbonization and Graphitization 12

1.1.1.4 Carbon Fibers Based on Other Precursors 12

1.1.1.4.1 Cellulosic Carbon Fibers 12

1.1.1.4.2 Lignin Carbon Fibers 13

1.1.1.4.3 Other Precursor Materials 14

1.1.2 Carbon Fiber Composites..... 16

1.1.2.1 Carbon Fiber Reinforced Plastics - CFRPs (Polymer Matrix Composites) 16

1.1.2.1.1 Resin Systems Used in CFRP..... 17

1.1.2.2 Carbon-Carbon Composites (Carbon Matrix Composites)..... 17

1.1.2.3 Metal Matrix Composites 18

1.1.2.4 Ceramic Matrix Composites 19

1.1.2.5 Hybrid Composites..... 19

1.1.2.6 Manufacturing Processes of Carbon Fiber Composites 20

1.1.2.6.1 Hand Lay-Up 20

1.1.2.6.2 Molding..... 20

1.1.2.6.3 Compression Molding 21

1.1.2.6.4 Bladder Molding 21

1.1.2.6.5 Vacuum Bagging 21

1.1.2.6.6 Autoclave 21

1.1.2.6.7 Out-of-Autoclave 22

1.1.2.6.8 Resin Infusion 22

1.1.2.6.9 Resin Transfer Molding (RTM) 22

1.1.2.6.10 Vacuum Assisted Resin Transfer Molding (VARTM) 22

1.1.2.6.11 Filament Winding..... 23

1.1.2.6.12 Pultrusion..... 23

1.1.2.6.13 Automated Fiber Placement (AFP) and Automated Tape Laying (ATL)..... 23

1.1.2.6.14 Other Composite Manufacturing Processes 24

1.2 End Use Applications – A Snapshot..... 26

1.2.1 Aerospace and Defense 26

1.2.2 Sports and Leisure Applications 28

1.2.3 Automotive 30

1.2.4 Wind Energy 31

1.2.5 Pressure Vessels 32

1.2.6 Construction and Infrastructure 33

1.2.7 Molding Compound Applications..... 35

1.2.8 Oil and Gas Applications 36

1.2.9 Other Industrial Applications 37

2. KEY MARKET TRENDS 38

2.1 Carbon Fibers to Gain Wider Acceptance in Mainstream Automobiles 38

2.2 Demand for Carbon Fiber in Aerospace Industry Bolstered by Greater Acceptance in Commercial Aircrafts 41

2.3 Carbon Fiber Composite Pressure Vessels to Witness Significant Growth 44

2.4 Research and Commercialization Initiatives in Low-Cost Carbon Fiber 47

3. INDUSTRY LANDSCAPE 51

3.1 An Overview of the Carbon Fiber Supply Chain .. 51

3.2 Global Carbon Fiber Production Capacities 52

3.2.1 Carbon Fiber Installed Capacities by Precursor Type 53

3.2.1.1 PAN-Based Carbon Fiber Installed Capacities by Tow Type 54

3.2.2 Carbon Fiber Installed Capacities by Geographic Region 55

3.2.2.1 PAN-Based Carbon Fiber Installed Capacities by Geographic Region 56

3.2.3 Carbon Fiber Installed Capacities by Country 57

3.2.3.1 PAN-Based Carbon Fiber Installed Capacities by Country 58

3.2.3.2 Pitch-Based Carbon Fiber Installed Capacities by Country 59

3.2.4 Carbon Fiber Installed Capacities by Manufacturer 60

3.2.4.1 Carbon Fiber Manufacturers' Installed Capacities by their Operating Country 65

3.2.4.1.1 Toray Industries 65

3.2.4.1.2 Teijin Carbon (formerly Toho Tenax) 66

3.2.4.1.3 Mitsubishi Chemical 67

3.2.4.1.4 SGL Carbon 68

3.2.4.1.5 Hexcel Corporation 69

3.3 Key Global Players 70

Carbon Fiber Manufacturers..... 70

Cytec Engineered Materials Inc. (Solvay Group) (US) 70

DowAksa (Turkey) 72

Formosa Plastics Corporation (Taiwan)..... 73

Hexcel Corporation (United States)..... 74

Hyosung Corporation (South Korea) 76

Jiangsu Hengshen Co., Ltd. (China)..... 77

Kangde Composites Co., Ltd (China)..... 78

Kureha Corporation (Japan) 80

Mitsubishi Chemical Corporation (Japan)..... 81

Osaka Gas Chemicals Co Ltd. (Japan) 85

SGL Carbon SE (Germany) 86

Teijin Limited (Japan) 89

Toray Industries, Inc. (Japan) 91

Zoltek Companies Inc (United States) 95

Weihai Guangwei Composites Co., Ltd. (China) 97

Zhongfu Shenying Carbon Fiber Co., Ltd. (China) 98

Carbon Fiber Recyclers 99

Carbon Conversions, Inc. (United States) 99

CFK Valley Stade Recycling GmbH & Co KG (Germany) . 100

ELG Carbon Fibre Ltd. (United Kingdom)..... 101

Carbon Fiber Composite Manufacturers..... 102

A&P Technology (United States) 102

AciturriAeronautica (Spain)..... 103

Albany Engineered Composites (United States)..... 104

Aldila, Inc. (United States)..... 105

AVANCO GmbH (Germany)..... 106

F.S. Fehrer Automotive GmbH (Germany)..... 107

Faber Industrie SpA (Italy) 108

GKN Aerospace (United Kingdom) 109

Gurit Holding AG (Switzerland) 110

Hexagon Composites ASA (Norway)..... 112

Kaman Corporation (United States) 114

Lehmann&Voss&Co. (Germany) 115

Leonardo SpA (Italy) 116

Luxfer Gas Cylinders (Luxfer Group) (United Kingdom) 117

Magna International Inc. (Canada) 118

Menzolit GmbH (Germany) 119

Metal Mate Co Ltd (Thailand) 119

Mitsubishi Heavy Industries Ltd (Japan) 120

Plasan Carbon Composites, Inc. (United States) 121

Premium Aerotec GmbH (Germany) 122

RTP Company (United States)..... 123

Saudi Basic Industries Corporation (Saudi Arabia) 124

Saertex GmbH & Co. Kg (Germany) 125

Siemens Gamesa Renewable Energy S.A. (Spain) 126

Spirit Aerosystems Inc (United States)..... 127

Strata Manufacturing PJSC (United Arab Emirates) 127

Tencate Advanced Composites Holding B.V. (The Netherlands)..... 128

The Gill Corporation (United States)..... 130

Trek Bicycle Corporation (United States)..... 131

UTC Aerospace Systems (United States)..... 132

Vestas Wind Systems A/S (Denmark)..... 134

Worthington Industries, Inc. (United States) 135

3.4 Key Business and Product Trends 136

Toray Industry to Expand its Large-Tow Carbon Fiber Production Capacity 136

Covestro AG Begins Commercial Production of Composite Materials 136

Universal Asset Management Fully Recycles Carbon Fiber from End-of-life Commercial Aircraft..... 136

Toray Industries, Inc Develops Autoclave Technology for Carbon Fiber Reinforced Plastics 137

Toray to Acquire TenCate Advanced Composites Holding B.V 137

Safran SA and Toray Enter into Agreement 137

JEC Innovation Award for Zoltek..... 138

JEC Innovation Award for Integrated Sandwich Structure Concept 138

Arkema and Hexcel Form Strategic Alliance 138

Hexcel Establishes New Production center in Casablanca, Morocco 138

Magna International, Inc Establishes New Composites Center of Excellence in Esslingen, Germany 139

Suzlon Group Develops Longest Wind-Turbine Blade ... 139

MHI Vestas Sign Memorandum of Understanding (MOU) on Offshore Wind Program..... 140

METEX Group Plans to Commence New Textile Division in US..... 140

Oxeon AB Introduces TeXtreme ±45° Grid Fabric 140

Boeing Added Showa Aircraft's CFRP Faced Aramid Honeycomb Sandwich Panels to its List of Qualified Products 141

Saint-Gobain Acquires High Performance Composites Producer HyComp 141

Mitsubishi to Increase the Scale of the Carbon Fiber Recycling Process 'Tenfold' 141

Carbon Fiber Recycling, Inc Constructs 2,000 MT/Annum Carbon Fiber Recycling Plant 141

Launch of Voith's New Carbon Fiber Production Line Elevate the Industrialization of Composites Manufacture to a New Level..... 141

Hexion and Kangde Composites Join Forces to Develop High Volume Carbon Fiber Manufacturing Methods 142

Japan Patent Office Issued a New Patent for 4M Carbon Fiber Corp.'s Method of Plasma Oxidation for Polymeric Materials 142

Airtech Advanced Materials Group Unveils New Airtech TMGC-TX Carbon Fabrics 143

Ford Files Patent for New Hybrid Composite Cylinder Head 143

Toho Tenax Co. Ltd Develops Shock-Resistant Prepreg 143

SGL Group Set-up SIGRAFIL® C T50-4.8/280 FiberProduction Unit 144

SGL Group, Fraunhofer IGC, Compositence GmbH and BA Composites GmbH Establish Advanced Fiber Placement Technologies in Meitingen, Germany 144

AS9100D Aerospace Certification Received by Oxeon AB.... 144

4M Carbon Fiber Corp., New Name of Woodland Holdings Corp..... 145

Brembo Establishes a New Carbon Fiber Processing Facility at its Curno Factory145

ELG Carbon Fibre and SET and Sanko Gosei Joined Forces...145

Sulzer Chemtech and SGL Group Form an Alliance on Carbon Fiber Composite Materials145

SGL Carbon SE Divests SGL Kumpers GmbH & Co. KG Joint Venture146

Solvay Signs Supply Agreement with Boeing146

Solvay and deBotech Enter into Partnership with USA Bobsled and Skeleton146

Carbon Fiber Drone Project Agreement Signed by Kangde and Tengdun Technology146

Launch of ELG's CARBISO™ Range of Recycled Carbon Fiber Products at Auto World 2018 Expo147

Plasan to Produce the First Commercial Composite Ramps and Bridgeplates for Amtrak147

Zoltek's Carbon Fiber Make a Mark in New Uniti Car147

Hexcel Acquires Aerospace & Defense Business of Oxford Performance Materials148

GM's Redesigned Pickup Beds Use Carbon Fiber148

UMATEX Group Research Center Commissions Carbon Fiber Pilot Line148

TenCate and Shape form an Alliance on Press Molding of Snap Cure Prepregs148

Hyundai Files Patents for Carbon Fiber Reinforced Plastic (CFRP) Front End149

Toray to Establish New Carbon Fiber Facility in Mexico.149

Teijin to Establish Carbon Fiber Production Center in South Carolina, US149

ADEKA Corporation and GH Craft Ltd Develop World's First Fiber-to-Composite (FIOC) Molding Process150

Toho Tenax Develops Carbon Fiber based Multi-MaterialRoof Cover for Fuel-Cell Bus150

Audi Sport GmbH Utilizes CFRP from Mitsubishi Chemical Corporation150

SGL Carbon SE Acquires BMW Group's Interest in the Joint Venture SGL Automotive Carbon Fibers151

Bertrandt AG and SGL Group Develops New InnovativeCFRP Technology 'Carbon Carrier'151

SGL Group Acquires 50-Percent Share of BENTELER Carbon Composites Beteiligungs-GmbH151

Solvay Acquires European Carbon Fiber GmbH152

Solvay and Mubadala Development Company Enter into Joint Venture152

ELG and Land Rover BAR to Promote the Most Economic and Environmentally Efficient Application of Recycled Carbon Fiber Products153

Australia's First Entirely Home Grown Carbon Fiber Produced by CSIRO153

Kangde and BAIC to Build Biggest Industrial Base for Carbon Fiber Auto Parts153

Hexagon Lincoln Supplies TITAN® Trailers for Certarus Ltd ..153

Hexcel Corporation and UTC Aerospace Systems Extend Carbon and Glass Prepreg Systems Supply Agreement through 2030154

Hexcel and Vestas Expand Composite Materials Supply Agreement for Wind Blades154

Hexcel Corporation Acquires Structil SA154

Zoltek, KraussMaffei Technologies and Lanxess Develop Carbon Fiber Vehicle Parts154

WIPAG Group Acquired by ALBIS PLASTIC155

Hexcel Corporation Join Forces with Cranfield University and Metisse Motorcycles155

Hexcel Corporation Unveils HexPly® M77HF Prepreg155

Hexcel Corporation to Start Multi Axial Infused Materials (MAXIM) R&D Project156

Reliance Industries Ltd Acquires Kemrock Industries & Exports Limited156

Kangde Group Plans World's Biggest Carbon Fiber Plant in China156

Hengshen and Bombardier form Carbon Fiber Prepreg Supply Pact156

CRTC and ELG Develops Recycled Carbon Fiber Composites-based Automotive Seatback157

TenCate Showcases New Thermoplastic and Thermoset Prepreg Technologies157

Gurit Clears Aerospace Qualification158

Hexagon Composites Expand its Hydrogen Cylinders Business158

Hexagon Composites Develops Hydrogen Based Storage Tanks for Toyota158

Worthington Industries Launches Type 3 Rail Mount CNG Fuel System158

Airtech International Introduces Beta TX 670 DISCO Prepreg159

Godiva 3, Award Winning Submarine Made using CARBISO™ M100 Recycled Carbon Fiber159

SAERTEX Contributes to the Development of World's Largest Carbon Spar Cap159

LM Wind Power to Start Wind Turbine Blade Plant in Turkey159

Technical University of Munich and SGL Group Collaborate on Carbon Materials and Expertise for Hyperloop Pod Prototypes160

Solvay Solidifies its European Kitting Capabilities to Meet Composite Industry Demand160

Sigmatex Signed a Strategic Collaborative Deal with Hengrui Corp160

LeMond Composites Strike an Agreement with Deakin University for Low-cost Carbon Fiber Production161

METX Group and Karl Mayer Enter into Partnership ...161

Avio S.p.A and Toray Group Sign Supply Agreement on High Performance Carbon Fiber161

SGL Group Delivers 104 kilometers SIGRAFIL® 50k Carbon Fiberto the Institute for Computational Design at the University of Stuttgart162

Hexcel Corporation Extends Carbon Fiber Supply Deal with Airbus Helicopters162

Solvay and GKN Aerospace Enter into Agreement162

DowAksa Reach Supply Agreement with Vestas Wind Systems AS163

First Composite Overwrapped Pressure Vessel using Continuous Recycled Fiber Developed by Steelhead Composites and Vartega163

TenCate and Airborne Sign Composite Materials Agreement163

Mitsubishi Chemical Corporation Bags Carbon Fiber Sheet Molding Compound (SMC) Contract with Toyota164

SGL Group Heads the UK-Funded Research Project for Carbon Fiber Composite Material164

Solvay's Resin Infusion Material Technology Selected by United Aircraft Corporation and AeroComposit164

Commercial Aircraft Corporation of China (COMAC) Selects Solvay as Carbon Fiber Supplier165

Faurecia Acquired Stelia Aerospace Composites165

Mitsubishi Chemical's New Carbon Fiber Composite to Cut Cost of Autoparts Production165

GE Acquires LM Wind Power166

Hexagon Composites ASA Sign Joint Venture Agreement with Nel ASA and PowerCell Sweden AB166

Hexcel Corporation Bags HiMax™ Non-Crimp Fabric (NCF) Supply Contract with Mubea Carbo Tech GmbH166

Mitsubishi Plastics and Mitsubishi RayonMerged to form Mitsubishi Chemical Corporation167

Magna and Ford Motor Company Develop Carbon Fiber Composite Subframe Prototype167

Safran and Toray Enter into Carbon Fiber and Composite Materials Contract167

The Institute for Advanced Composites Manufacturing Innovation (IACMI) to Optimize Resins and Sizings for Vinyl Ester for Carbon Fiber Composites168

Toho Tenax Europe GmbH Develops New Carbon Fiber Material TENAX-E COMPOUND iPEEK CF30168

Mitsubishi Rayon Acquires Gemini Composites LLC168

Gold Supplier Award for Solvay169

Litzler and RMX Technologies Develops a New Plasma Oxidation Technology169

HAECO Selected Oxeon's TeXtreme® Technology for Use in Commercial Aero Applications169

Worthington Launches Multiple Element Gas Container (MEGC)169

Nordex Buys SSP Technology170

Toray Integrates it's US Carbon Fiber Business170

Toray's Starts New Carbon Fiber Prepreg Facility at Ishikawa, Japan170

Toray Plans to Construct Carbon Paper Facility in Japan171

A New Rail Vehicle Project Utilized Recycled Carbon Fibers to Meet Cost and Performance Targets171

Oxeon to Broaden its Patented ±45° Spread Tow Weaving Capacity171

Strata, Reliance Sign MoU on Aerospace Composites Collaboration172

ELG Carbon Fibre, Adesso Advanced Materials Sign MoU to Develop Recycled Carbon Fiber Composites for Automotive Use172

Quatro to be merged into AIM Aerospace Corporation 172

Teijin Acquires Continental Structural Plastics Holdings Corporation172

Mitsubishi Chemical Corporation Acquires C.P.C. SRL ..173

Mitsubishi Rayon Co., Ltd to Acquire SGL Carbon Fibers LLC173

Launch of A&P's TX-45 as a Standard Product173

Hexcel Corporation Forms Strategic Alliance with Carbon Conversions Inc174

Gurit Launches Two New Epoxy Prepreg Materials174

Gurit Renews Contract with Diehl Aircabin174

Hexcel Supplies HiMax™ Carbon Fiber Reinforcements to Bright Lite Structures175

Hexcel Corporation Receives Advanced Composites Supply Contract from Airbus Group175

PolyOne Develops CFRP Underbody Brace for C7 Chevrolet Corvette175

AVANCO's xperion Energy & Environment Acquired by Hexagon Composites176

Broadening of Carver's Non-Wovens Production Capacity ..176

Gurit Bags Four Year Automotive Carbon Fiber Composites Supply Contract176

SAERTEX Group and Bombardier Enter into Agreement 177

Fiberline Composites A/S and Mitsubishi Rayon Form Joint Venture177

Lehmann&Voss&Co Opens New Plant in China177

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 Trains178

Opening of Techmer ES' Delaware Compounding Facility ...178

First 2.7m Wide Recycled Carbon Mats Produced by ELG Nonwoven Machine179

Solvay Establishes New Production Center in South Carolina, US179

Hexagon Lincoln Develops Type 4 cylinders179

Mitsui Joined Forces with FE to Broaden its Presence in the Automotive Carbon Fiber Market180

Unveiling of Custom Carbon Fiber Program for Current Rolls-Royce Models180

LM Wind Power Develops World's Longest Blade180

Mainstay Fuel Technologies, Inc Selects Luxfer's G-STOR Go Cylinders180

ELG Carbon Fibre and IACMI Collaborate for Accelerating Plans for Expansion into the US181

Flag Raising Ceremony for the First Phase of Zhong An Xin Carbon Fiber Project Held181

Northrop Grumman Choses NORDAM's NTR Division to Supply Carbon Fiber Structures for F-35 Lightning II Fighter181

Toray Supplies Carbon Fiber TORAYCA® and TORAYCA® Prepreg for Airbus182

Mitsubishi Rayon to Expand Large-tow Carbon Fiber Production Capacity182

Opening of Lamborghini's Advanced Composite Structures Laboratory182

Luxfer Gas Cylinders Unveils G-Stor™ Go Type 4 Carbon Composite Cylinders183

Hexagon Composites Enter into Joint Venture Agreement with Siddha Gas Technik Pvt Ltd183

Hexcel Corporation Opens New Composite Materials Center in Duxford, UK183

DowAksa and Turkish Aerospace Industries Jointly Establish 'DowAksa Global Composites Center'184

LM Wind Power Establishes Wind Turbine Blade Plant in India....184

Mitsui, Toray, and Hexagon Lincoln Enter into Joint Venture Agreement to Manufacture Carbon Fiber Reinforced High-Pressure Hydrogen Cylinders184

Hexcel's HiMax™ Carbon Fiber Multiaxial Fabrics Displayed at GALM Europe 2016 in UK185

TenCate Reach Composites Material Supply Agreement with Marengo Swisshelicopter185

Cannon to Produce HP-RTM Technology-based CFR Composite Parts for New "Made in China" Electric Cars 185
McNeilus Truck & Manufacturing, Inc Expands its NGEN™ CNG System Offerings186
Toray and Toyota Tsusho Initiate Carbon Fiber Recycling Initiative186
Toray Establishes New Carbon Fiber Reinforced Plastic (CFRP) Plant in Thailand186
Toho Tenax Co., Ltd Unveils Thermoplastic Textile Prepreg187
Liberty Hall Capital Partners Acquires AIM Aerospace...187
Launch of C-4QX 9400, a New Addition to VectorUltra Line of Advanced Composite Reinforcements.....187
Gurit's Cosmetic Carbon Prepregs Qualified by Major Car Manufacturers.....188
Hexcel Incorporates its CFRP Technology in BMW 7 Series Car Model.....188
Hexcel Acquires Remaining Interest in Formax UK Joint Venture188
Toho Tenax Develops Technologies for Microwave Carbonization188

4. GLOBAL MARKET OVERVIEW.....190
4.1 Global Carbon Fiber Reinforced Plastics (CFRP) Market Overview by End-Use Application 193
4.2 Global Carbon Fiber Market Overview by End-Use Application..... 197
4.2.1 Global Carbon Fiber End-Use Application Overview by Geographic Region 201
4.2.1.1 Aerospace & Defense..... 201
4.2.1.2 Sports & Leisure..... 205
4.2.1.3 Wind Energy 209
4.2.1.4 Automotive 213
4.2.1.5 Pressure Vessels 217
4.2.1.6 Construction & Infrastructure..... 221
4.2.1.7 Molding Compounds..... 225
4.2.1.8 Oil & Gas 229
4.2.1.9 Other Industrial Applications 233

PART B: REGIONAL MARKET PERSPECTIVE ..237
Global Carbon Fiber Reinforced Plastics (CFRP) Market Overview by Geographic Region 237
Global Carbon Fibers Market Overview by Geographic Region..... 241

REGIONAL MARKET OVERVIEW.....245
1. NORTH AMERICA245
1.1 North American Carbon Fiber Reinforced Plastics (CFRP) Market Overview by End-use Application .. 248
1.2 North American Carbon Fiber Market Overview by End-Use Application 252
1.3 North American Carbon Fiber Market Overview by Country..... 256
1.4 Major Carbon Fiber Manufacturers 258
4M Carbon Fiber Corp. (United States).....258
Advanced Carbon Products, LLC (United States).....259
Applied Sciences Inc (United States).....260
Cytec Engineered Materials Inc. (United States).....261
Hexcel Corporation (United States).....262
Lemond Composites LLC (United States)263
SGL Automotive Carbon Fibers LLC (United States)264
Teijin Carbon America, Inc. (United States)264
Toray Composite Materials America, Inc. (CFA) (US).....265
Mitsubishi Chemical Carbon Fiber and Composites, Inc. (US)..... 266
Zoltek Corporation (United States).....267
1.5 Major Carbon Fiber Recyclers 269
Carbon Conversions, Inc. (United States)269
Carbon Fiber Recycling, Inc. (United States).....270
Universal Asset Management, Inc. (United States).....270
Vartega Inc (United States).....271
1.6 Major Carbon Fiber Composite Manufacturers..... 272
A&P Technology (United States).....272
Adherent Technologies, Inc. (United States)273
AIM Aerospace Corporation (United States)274
Albany Engineered Composites (United States)275
Aldila, Inc. (United States)276
Aurora Flight Sciences Corporation (United States).....276

Automated Dynamics (United States) 277
Bally Ribbon Mills (United States)278
BGF Industries, Inc. (Porcher Group) (United States) 279
Composite Technology Development, Inc. (United States) ..280
Composites Horizons Inc (United States) 281
Fabric Development Inc (United States)..... 282
Fiber Materials Inc (United States)..... 283
Hexagon Lincoln LLC (United States)284
Hitco Carbon Composites, Inc. (United States).....285
Kaman Corporation (United States) 286
Luxfer Canada Limited (Canada) 287
Magna International Inc. (Canada)..... 288
Orbital ATK, Inc.(United States) 289
Park Electrochemical Corp. (United States)..... 290
Plasan Carbon Composites, Inc. (United States).....291
PlastiComp, Inc. (United States)..... 292
Protech Composites Inc (United States) 292
Quantum Composites Inc (United States) 293
Quantum Fuel Systems LLC (United States) 294
RTP Company (United States) 295
Spirit Aerosystems Inc (United States) 296
Steelhead Composites, LLC (United States).....297
The GILL Corporation (United States)..... 298
TPI Composites, Inc. (United States) 299
Trek Bicycle Corporation (United States) 299
UST Mamiya (United States) 300
UTC Aerospace Systems (United States) 301
Vectorply Corporation (United States)..... 303
Worthington Industries, Inc. (United States)..... 304

2. EUROPE305
2.1 European Carbon Fiber Reinforced Plastics (CFRP) Market Overview by End-use Application..... 308
2.2 European Carbon Fiber Market Overview by End-Use Application..... 312
2.3 European Carbon Fiber Market Overview by Country..... 316
2.4 Major Carbon Fiber Manufacturers 318
Hexcel Fibers, SL (Spain).....318
Hexcel Fibers SASU (France).....318
SGL Carbon SE (Germany)319
SGL Carbon Fibers Ltd. (United Kingdom)320
Teijin Carbon Europe GmbH (Germany)321
Toray Carbon Fibers Europe S.A. (France).....321
Zoltek Zrt. (Hungary)321
2.5 Major Carbon Fiber Recyclers 322
CFK Valley Stade Recycling GmbH & Co KG (Germany) .322
ELG Carbon Fibre Ltd. (United Kingdom)..... 323
Hadeq Recycling GmbH (Germany) 324
KarborekSpA (Italy)325
WIPAG Deutschland GmbH (Germany) 325
YF International BV (The Netherlands).....326
2.6 Major Carbon Fiber Precursor Producers 327
European Carbon Fiber GmbH (Germany)..... 327
Fibras Sintéticas de Portugal S.A. (Portugal).....327
2.7 Major Carbon Fiber Composite Manufacturers 328
AciturriAeronautica (Spain)..... 328
Airborne International BV (The Netherlands).....329
Albis Plastic GmbH (Germany) 329
ATR Group Srl (Italy).....330
Avanco GmbH (Germany) 331
Bond-Laminates GmbH (Germany) 332
CIT Composite Materials Italy (Italy) 332
Crompton Technology Group Ltd (United Kingdom) 333
Euro Advanced Carbon Fiber Composites GmbH (Germany).....333
F.S. Fehrer Automotive GmbH (Germany)..... 334
Faber Industrie SpA (Italy)..... 334
Fiberline Composites A/S (Denmark) 335
Forward Composites (Lola Group) (United Kingdom).... 335
Fothergill Engineered Fabrics Limited (UK) 336
Fritzmeier Composite GmbH & Co Kg (Germany)..... 336
GKN Aerospace (United Kingdom) 337
Gurit Holding AG (Switzerland) 338
Hexagon Composites ASA (Norway)..... 340
Hexcel Reinforcements UK Limited (United Kingdom) .. 342

LATI Industria Termoplastici SpA (Italy) 342
Lehmann&Voss&Co. (Germany)..... 343
Leonardo SpA (Italy) 344
LM Wind Power (Denmark) 345
Luxfer Gas Cylinders (Luxfer Group) (United Kingdom) 346
Munzolit GmbH (Germany) 347
Morgan Advanced Materials Plc (United Kingdom) 348
Mubea Carbo Tech GmbH (Austria) 349
Oxeon AB (Sweden) 350
Porcher Industries SA (France) 351
Premium Aerotec GmbH (Germany)..... 352
Roding Automobile GmbH (Germany) 353
SAERTEX GmbH & Co. Kg (Germany) 354
Siemens Gamesa Renewable Energy S.A. (Spain) 355
Sigmatex (UK) Limited (United Kingdom) 356
Sika AG (Switzerland)..... 357
SSP Technology A/S (Denmark) 358
Technical Fibre Products Ltd (United Kingdom) 358
Tencate Advanced Composites Holding B.V. (The Netherlands).....359
Teximpianti SpA (Italy)..... 361
TK Industries GmbH (Germany) 361
UNICARBON (Lithuania) 362
Vestas Wind Systems A/S (Denmark)..... 362

3. JAPAN363
3.1 Japan Carbon Fiber Reinforced Plastics (CFRP) Market Overview by End-use Application..... 366
3.2 Japan Carbon Fiber Market Overview by End-Use Application 370
3.3 Major Carbon Fiber Manufacturers 374
Kureha Corporation 374
Mitsubishi Chemical Corporation 375
Nippon Graphite Fiber Corporation 379
Osaka Gas Chemicals Co Ltd. 380
Teijin Limited 381
Toray Industries, Inc. 383
Carbon Fiber Recycle Industry Co., Ltd. – Carbon Fiber Recycler 387
3.4 Major Carbon Fiber Composite Manufacturers 388
JXTG Nippon Oil & Energy Corporation..... 388
Mitsubishi Heavy Industries Ltd 389
Nippon Carbon Co., Ltd. 390
Sakai Industries Ltd..... 390
SAKAI OVEK Co., Ltd. (Japan) 391
Showa Aircraft Industry Co., Ltd. 391
TOKYO R&D Composite Industry Co., Ltd. (Japan) 392

4. ASIA.....393
4.1 Asian Carbon Fiber Reinforced Plastics (CFRP) Market Overview by End-use Application..... 396
4.2 Asian Carbon Fiber Market Overview by End-Use Application 400
4.3 Asian Carbon Fiber Market Overview by Country..... 404
4.4 Major Carbon Fiber Manufacturers 406
Anshan Sinocarb Carbon Fibers Co., Ltd. (China) 406
Bluestar Fibres Corporation (China) 406
China Hi-Tech Group Corporation (China) 407
Formosa Plastics Corporation (Taiwan) 409
GanSuHaoShi Carbon Fiber Co., Ltd. (China)..... 410
Henan Yongmei Carbon Fibre Co., Ltd. (HNEC) 410
Hyosung Corporation (South Korea) 411
Jiangsu Hangke Composite Materials Technology (China) ... 412
Jiangsu Hengshen Co., Ltd. (China) 413
Jilin Qifeng Chemical Fiber Co., Ltd. (China)..... 413
Kangde Composites Co., Ltd. (China) 414
Reliance Industries Ltd./Kemrock Industries & Exports Ltd. (India) 416
Taekwang Industrial Co., Ltd. (South Korea) 417
UHT Unitech Co., Ltd. (Taiwan)..... 418
Weihai Guangwei Composites Co., Ltd. (China) 419
Zhongfu Shenying Carbon Fiber Co., Ltd. (China)..... 420
4.5 Major Carbon Fiber Composite Manufacturers 421
Advanced International Multitech Co., Ltd. (Taiwan) ... 421
Asian Composites Manufacturing Sdn Bhd (Malaysia) .. 421
Hankuk Carbon Co., Ltd. (South Korea)..... 422
Hindoostan Composite Solutions (India)..... 422
Jiangsu Aosheng Composite Materials Hi-Tech Co., Ltd. (China) .. 423

Kineco Private Ltd (India).....424
 Korea Aerospace Industries Ltd (South Korea)425
 Kureha (Shanghai) Carbon Fiber Materials Co., Ltd. (China).425
 Metal Mate Co., Ltd. (Thailand).....426
 PGTEX China Co., Ltd. (China)426
 SK Chemicals Co., Ltd. (South Korea)427
 Sunwell (Jiangsu) Carbon Fiber Composite Co., Ltd. (China).424
 Suzlon Energy Ltd. (India)428
 Taiwan Electric Insulator Co., Ltd. (Taiwan)428
 Taiwan Strong Sporting Goods Inc (Taiwan)429
 Topkey Corporation (Taiwan)430
 Weihai Guangwei Composites Co., Ltd. (China)431
 You Chang Carbon Co., Ltd. (South Korea).....431

5. REST OF WORLD.....432
 5.1 Rest of World Carbon Fiber Reinforced Plastics (CFRP) Market Overview by End-use Application .. 435
 5.2 Rest of World Carbon Fiber Market Overview by End-Use Application 439
 5.3 Rest of World Carbon Fiber Market Overview by Country 443
 5.4 Major Carbon Fiber Manufacturers 445
 DowAksa (Turkey)445
 UMATEX Group (Russia).....446
 Argon Ltd. (Russia).....446
 Alabuga-Fibre LLC (Russia)447

5.5 Major Carbon Fiber Composite Manufacturers 448
 Metyx (Turkey) 448
 Quickstep Technology Pty Ltd (Australia) 448
 Riverscarbon Technologies Ltd (New Zealand) 449
 Strata Manufacturing PJSC (United Arab Emirates) 449

PART C: GUIDE TO THE INDUSTRY.....450

1. Manufacturers of Carbon Fibers and CF precursors ... 450
 2. Carbon fiber recycling companies 453
 3. Carbon fiber composites manufacturers 454

PART D: ANNEXURE.....465

1. RESEARCH METHODOLOGY 465
 2. FEEDBACK..... 467

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