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A new in-depth Market Report on the Carbon Fibre Industry....

THE CARBON FIBRE INDUSTRY WORLDWIDE 2008-2014: AN EVALUATION OF CURRENT MARKETS AND FUTURE SUPPLY AND DEMAND

By Tony Roberts

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The report provides information on:

- Global sales of carbon fibre reinforced plastics (CFRPs) are forecast to reach \$15 billion in 2008, rising to \$28 billion by 2014. By 2025, global sales of CFRP will be over \$50 billion a year
- The global demand for carbon fibre tow in 2008 is estimated to be 35,400 tonnes, and this is predicted to rise to 70,800 tonnes by 2014
- In 2008, Europe accounted for 33% of the world consumption of carbon fibre tow, North America 33%, Japan 18% and the rest of the world 16%
- By 2014, Japan will produce 25% of the world's carbon fibre, USA 29%, Europe 28% and the Rest of the World 18%
- The global end-use market demand for carbon fibre in 2008 is: aerospace 20%, industrial (including infrastructure, wind power and off-shore) 60%, and sports goods 20%. The report forecasts demand by end-use market to 2014
- The two major aircraft manufacturers – Airbus and Boeing – will together consume 24% of the global small tow carbon fibre output by 2014
- Carbon fibre manufacturers will invest \$1.4 billion between 2007 and 2014 to increase capacity by 92%
- Worldwide, small tow carbon fibre output is forecast to increase from 33,000 tonnes in 2008 to 45,500 tonnes by 2014, an increase of 38%
- Worldwide, large tow carbon fibre output is forecast to increase from 10,500 tonnes in 2008 to 22,000 tonnes by 2014 – an increase of 110%; pitch based carbon fibre capacity will increase from 1230 tonnes in 2008 to 2010 tonnes by 2014
- Includes in-depth profiles of all the major carbon fibre producers worldwide, including history, takeovers/mergers, plant expansions, financial results, data on product ranges, etc.
- The report is over 320 pages long and includes over 250 tables/figures giving plant capacities and output, consumption by individual key markets, and forecast supply/ demand for carbon fibre and CFRP to 2014

AVAILABLE NOW – *The Carbon Fibre Industry Worldwide 2008-2014: An Evaluation of Current Markets and Future Supply and Demand* is an in-depth market report on the rapidly growing global carbon fibre industry and its end-user markets. Over 320 pages long and featuring over 250 tables/figures, the report provides a detailed analysis of current and future production and consumption trends for all carbon fibre types and all main end-user sectors, including aerospace, defence, wind energy, automotive, pressure vessels, civil engineering, offshore oil and gas, sports and leisure, general industry, etc.

Future scenarios for growth to 2014 are provided through comprehensive statistical data (in table and graph formats) backed by analysis of likely trends in supply and demand for both carbon fibre and carbon fibre reinforced plastic (CFRP). All the world's major carbon fibre manufacturers are featured in the report, with plant capacities, production output, future expansion plans, details of product ranges, and full financial results discussed in detail.

Altogether, the report provides unique and invaluable information on the carbon fibre and CFRP industries going forward to 2014. The depth of information contained within its pages cannot be found in any other single source, and has been written by one of the industry's acknowledged experts, Tony Roberts, who has over 35 years experience in the sector. Information includes:

- Likely supply and demand scenarios for carbon fibre, projected to 2014, with in-depth analysis backed by tables giving detailed yearly figures.
- Carbon fibre plant capacities for small tow and large tow PAN-based carbon fibre and pitch-based carbon fibre, by manufacturer, to 2014, together with details of new plants, plant expansions, investment programmes, type of carbon fibre produced.
- Information on Boeing and Airbus aircraft build programmes, including Boeing 787 and Airbus A380, with details of carbon fibre and carbon fibre reinforced plastic (CFRP) demand on a yearly basis over the period 2008-2014 for each aircraft type. The potential impact of delays in build programmes on supply of carbon fibre and carbon fibre prices is assessed.
- Carbon fibre and CFRP usage in the growing business jet and general aviation sector.
- Government defence policies and potential impact on military sectors; details of carbon fibre usage and demand in military programmes.
- Assessment of the burgeoning wind energy market, with details of the number of wind turbines installed by geographic region/country, as well as carbon fibre and CFRP demand in this sector. Includes forecasts for the number of wind turbine blades to be built during the period 2008-2014, with carbon fibre volumes given for each blade type.
- Trends in compressed gas vessels, detailing the demand resulting from the drive towards clean air vehicles, fuel cell vehicles, etc. Carbon fibre and CFRP demand forecast to 2014.
- Trends in carbon fibre and CFRP usage in the oil and gas offshore drilling market. Carbon fibre and CFRP demand forecast to 2014.
- Trends in carbon fibre and CFRP usage in the sports and leisure sector.
- The report analyses the various processing routes, including intermediate (textiles, prepregs), filament winding and pultrusion, and moulding processes (resin transfer moulding and resin film infusion etc.), with details of carbon fibre consumption and forecasts to 2014.
- Market sectors are analysed in detail by volume, product type and geographic location. The growth in the production and consumption of carbon fibres by emerging economies such as China and India is assessed, and new key players in these countries are discussed.

These and many other facts and figures are given in *The Carbon Fibre Industry Worldwide 2008-2014: An Evaluation of Current Markets and Future Supply and Demand*. The market report is aimed at existing companies and new organisations entering the carbon fibre industry, whether manufacturing and/or supplying carbon fibre, carbon fibre intermediate products (such as prepregs), carbon fibre reinforced plastics (CFRPs), as well as end users, consultants and others interested in this important and dynamic industry

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An Evaluation of Current Markets and Future Supply and Demand
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TABLE OF CONTENTS

1: INTRODUCTION AND MARKET OVERVIEW

- 1.1 History
- 1.2 Current markets

2: PRECURSOR AND CARBON FIBRE PRODUCTION

- 2.1 Polyacrylonitrile (PAN)-based carbon fibre
- 2.2 Pitch-based carbon fibre production
- 2.3 Cellulose/rayon-based carbon fibre production
- 2.4 Comparison of the three major carbon fibre production routes
- 2.5 Chopped and milled carbon fibres

3: INTERMEDIATE AND COMPOSITE PRODUCTION PROCESSES – TECHNOLOGY AND MARKETS TO 2014

- 3.1 Intermediate processing
 - 3.1.1 Textiles
 - 3.1.1.1 Bi-directional woven fabrics
 - 3.1.1.2 Unidirectional (UD) woven fabrics
 - 3.1.1.3 Multiaxial / non-crimp fabrics (NCFs)
 - 3.1.1.4 3D fabrics
 - 3.1.1.5 Braiding
 - 3.1.1.6 Carbon fibre textile reinforcements – current and future supply and demand
 - 3.1.2 Prepregs
 - 3.1.2.1 Resin matrices
 - 3.1.2.2 Prepreg manufacturing routes
 - 3.1.2.3 Reinforcements for prepregs
 - 3.1.2.4 Carbon fibre prepregs – current and future supply and demand
 - 3.1.3 Carbon fibre moulding compounds (CFMCs)
- 3.2 Direct conversion
 - 3.2.1 Filament winding
 - 3.2.1.1 Fibre placement
 - 3.2.1.2 Filament winding and fibre placement – current and future markets
 - 3.2.2 Pultrusion/pulwinding
 - 3.2.3 Carbon-carbon composites
 - 3.2.3.2 Chemical vapour deposition (CVD)
 - 3.2.3.3 Resin char process
 - 3.2.3.4 Polyacrylonitrile (PAN)
 - 3.2.3.5 Carbon fibres for CCCs – growth forecast, 2007-2014
- 3.3 Composite production processes
 - 3.3.1 Wet/hand lay-up
 - 3.3.2 Vacuum bagging
 - 3.3.3 Resin transfer moulding (RTM)
 - 3.3.4 Resin film infusion (RFI)
 - 3.3.5 Compression moulding
 - 3.3.6 Autoclave moulding
 - 3.3.7 Injection moulding
 - 3.3.8 Thermoforming
 - 3.3.9 Mandrel wrapping
 - 3.3.10 Summary of production processes, with forecasts to 2014

4: APPLICATIONS – CURRENT MARKETS AND FORECASTS TO 2014

- 4.1 Aerospace
 - 4.1.1 Large passenger jet aircraft
 - 4.1.1.1 Boeing 787
 - 4.1.1.2 Airbus A380
 - 4.1.1.3 Airbus A350 XWB
 - 4.1.2 Regional passenger jet aircraft
 - 4.1.2.1 Avions de Transport Regional (ATR)
 - 4.1.2.2 Embraer
 - 4.1.2.3 Bombardier Aerospace
 - 4.1.3 Business jet and general aviation
 - 4.1.4 Military aircraft
 - 4.1.4.1 Military fighters and trainers
 - 4.1.4.2 Military transport aircraft
 - 4.1.4.3 Military refuelling “tanker” aircraft
 - 4.1.4.4 Military aircraft summary
 - 4.1.5 Helicopters
 - 4.1.6 Unmanned aircraft
 - 4.1.7 Jet engines
 - 4.1.8 Space systems
 - 4.1.8.1 Satellites
 - 4.1.8.2 Space telescopes
 - 4.1.8.3 Launch vehicles

- 4.1.9 Missiles
- 4.2 Marine defence
- 4.3 Ground defence vehicles
- 4.4 Aerospace and defence markets – summary
- 4.5 Automotive
 - 4.5.1 Carbon fibre demand in the automotive market
 - 4.5.2 Research
 - 4.5.3 New applications
- 4.6 Civil engineering
 - 4.6.1 Pultruded carbon fibre rods and plates for concrete reinforcement
 - 4.6.2 Carbon fibre reinforcing grid
 - 4.6.4 Carbon fibre prepregs and sheets for building/infrastructure
 - 4.6.5 CFRP cables
 - 4.6.6 Bridges
 - 4.6.7 Summary
- 4.7 Offshore oil and gas
 - 4.7.1 Drilling risers
 - 4.7.2 Production risers
 - 4.7.3 Choke and kill lines
 - 4.7.4 Spoolable piping
 - 4.7.5 Composite tethers
 - 4.7.6 Carbon fibre demand in offshore applications
- 4.8 Pressure vessels
 - 4.8.1 Compressed natural gas (CNG) pressure vessels
 - 4.8.2 Bulk gas storage pressure vessels
 - 4.8.3 Hydrogen storage vessels
 - 4.8.4 Small pressure vessels
 - 4.8.5 Summary and conclusions
- 4.9 Wind energy
 - 4.9.1 Wind turbine blade manufacture
 - 4.9.2 Carbon fibre demand in wind turbine blade production, 2007-2014
 - 4.9.3 Conclusions and market forecast to 2014
- 4.10 Industrial – other sectors
 - 4.10.1 Transmission shafts and rollers
 - 4.10.2 General engineering
 - 4.10.3 Medical sector
 - 4.10.4 Flywheels/centrifuges
- 4.11 Industrial markets – summary
- 4.12 Sports and leisure
 - 4.12.1 Golf equipment
 - 4.12.2 Racquets
 - 4.12.3 Ski poles and snow boards
 - 4.12.4 Fishing rods
 - 4.12.5 Bicycles
 - 4.12.6 Marine

5: CARBON FIBRE MANUFACTURERS

- 5.1 Cytec Industries Inc
- 5.2 Formosa Plastics Corp
- 5.3 Hexcel Corp
- 5.4 Mitsubishi Chemical Corp
- 5.5 Mitsubishi Rayon Co Ltd / Grafil Inc
- 5.6 Nippon Graphite Fiber Corp
- 5.7 SGL Carbon Group
- 5.8 Toho Tenax Co Ltd
- 5.9 Toray Industries Inc
- 5.10 Zoltek Companies Inc
- 5.11 Other carbon fibre manufacturers
 - 5.11.1 China
 - 5.11.2 India
 - 5.11.3 Turkey
 - 5.11.4 Other countries

6: CARBON FIBRE SUPPLY AND DEMAND OUTLOOK TO 2014

- 6.1 Supply
- 6.2 Demand
 - 6.2.1 Aerospace and defence
 - 6.2.1.1 Large passenger aircraft
 - 6.2.1.2 Business jets and general aviation
 - 6.2.1.3 Military/defence
 - 6.2.2 Industrial market sector
 - 6.2.3 Carbon fibre demand, by conversion route
 - 6.2.4 Carbon fibre demand: small and large tow PAN-based fibres

TABLES AND FIGURES FEATURED IN THE REPORT:

- ◆ Global market for all advanced reinforcement fibre types, 2008
- ◆ Precursor costs on carbon fibre cost
- ◆ Worldwide PAN carbon fibre nameplate production capacities by tow size, 2007-2014
- ◆ PAN carbon fibre nameplate production capacities worldwide, 2007-2014
- ◆ Worldwide pitch carbon fibre capacity
- ◆ Comparison of PAN/pitch/rayon carbon fibre and other reinforcing fibres
- ◆ Main property differences between bi-directional fabric types
- ◆ Leading companies active in the weaving sector, by region
- ◆ Major manufacturers of multiaxial and 3D fabrics
- ◆ Carbon fibre demand for carbon fibre fabrics, 2007-2014
- ◆ Thermoset resin matrix characteristics
- ◆ Properties and applications of various thermoplastic resin matrices
- ◆ Major manufacturers of carbon fibre prepregs
- ◆ Carbon fibre demand for unidirectional prepregs, 2007-2014
- ◆ Worldwide consumption of small and large tow carbon fibre for compounding products, 2007-2014
- ◆ Comparison between filament winding and fibre placement
- ◆ Worldwide consumption of small and large tow carbon fibre in the filament winding/fibre placement market, 2007-2014
- ◆ Global consumption of carbon fibre for pultrusion, 2007-2014
- ◆ Carbon fibre (oxidized and non-oxidized) demand for carbon-carbon composites, 2007-2014
- ◆ Carbon fibre usage in conversion/processing routes, 2007-2014
- ◆ Small and large tow carbon fibre usage by intermediate product type and production process, 2007-2014
- ◆ Worldwide civil and military aircraft deliveries, 2007-2014
- ◆ Major civil passenger aircraft suppliers: orders, deliveries and backlog, 2005-2007
- ◆ CFRP utilisation in civil aircraft: % breakdown by fibre type, 2003-2014
- ◆ Carbon fibre usage in the aerospace sector, by product form, 1996-2014
- ◆ Types and properties of thermoplastic resins
- ◆ Manufacturers of composite parts for the Boeing 787
- ◆ Boeing 787 build rate and CFRP and carbon fibre buy weight demand, 2007-2014
- ◆ Airbus A380 build rate and CFRP/carbon fibre buy weight demand, 2007-2014
- ◆ Airbus A350 build rate and CFRP/carbon fibre buy weight demand, 2008-2014
- ◆ Combined worldwide production of regional aircraft, 2007-2014
- ◆ Large passenger aircraft and regional aircraft build programmes, 2007-2014
- ◆ Carbon fibre buy weight demand, and demand by processing route, for large passenger aircraft and regional aircraft build programmes, 2007-2014
- ◆ Deliveries of business jets aircraft by market sector, 2007-2014
- ◆ Worldwide deliveries of business jets and general aviation aircraft, 2007-2014
- ◆ Worldwide deliveries of business jets and general aviation aircraft containing composite structures, 2007-2014
- ◆ CFRP and carbon fibre demand in the business jet and general aviation sector worldwide, 2007-2014
- ◆ Top 10 business jet programmes ranked by composite structural flyaway weight, 2007-2014
- ◆ Build rates and market share for general aviation aircraft incorporating composites, by manufacturer and model types, 2007-2016
- ◆ Carbon fibre usage in the business jet and general aviation sector by intermediate product type, 2007-2014
- ◆ Composites content of military aircraft, by type
- ◆ Composite demand from fighters and trainer aircraft by flyaway weight, 2003-2006 and 2007-2016
- ◆ Estimated CFRP and carbon fibre demand from refuelling tanker aircraft sector, for delivery between 2007 and 2022 inclusive
- ◆ Worldwide production of military fighters, trainers and tankers, 2007-2014
- ◆ Worldwide buy weight demand for carbon fibre in military fighter jets, trainers and tankers, 2007-2014
- ◆ Worldwide demand for carbon fibre in military aircraft by processing route, 2007-2014
- ◆ Demand for advanced composites by top ten military and civil helicopter programmes, ranked by forecast flyaway weight demand, 2007-2014
- ◆ Ranking of civil and military helicopter OEMs by composite materials flyaway weight demand, 2007-2014
- ◆ Carbon fibre buy weight for the helicopter sector worldwide, 2007-2014
- ◆ Worldwide carbon fibre demand from the helicopter sector, by conversion route, 2007-2014
- ◆ Production of unmanned aircraft vehicles (UAVs) worldwide, by type of UAV, 2007-2014
- ◆ Carbon fibre buy weight demand from UAV market, 2007-2014 (tonnes)
- ◆ Carbon fibre demand from UAVs, by processing route, 2007-2014
- ◆ Worldwide jet engine deliveries, 2007-2014
- ◆ Worldwide CFRP and carbon fibre buy weight demand from the jet engine sector, 2007-2014
- ◆ Carbon fibre demand from the jet engine sector, by processing route, 2007-2014
- ◆ Estimated expendable launch vehicle demand by model, 2006-2008
- ◆ Worldwide carbon fibre demand from space systems sector, 2007-2014
- ◆ Carbon fibre demand from space systems (satellites/launch vehicles), by processing route
- ◆ Worldwide carbon fibre demand from JASSM missile programme, 2007-2014
- ◆ Carbon fibre demand from DDG-1000 programme, 2007-2014
- ◆ Worldwide carbon fibre (buy weight) demand from the military vehicle sector, 2007-2014
- ◆ Worldwide carbon fibre (buy weight) demand from the military vehicle sector (excluding aerospace programmes), by processing route, 2007-2014
- ◆ Worldwide carbon fibre demand from the aerospace and defence sector, 2007-2014
- ◆ Worldwide carbon fibre demand from the aerospace and defence sector, by processing route, 2007-2014
- ◆ Worldwide carbon fibre usage in the automotive market, 2007
- ◆ Worldwide carbon fibre demand in individual automotive sectors, 2007-2014
- ◆ Fabrication techniques for CFRP parts for automobiles
- ◆ Worldwide carbon fibre demand in the automotive sector by processing route, 2007-2014
- ◆ Worldwide carbon fibre demand for fuel cell membrane plates, 2007-2014
- ◆ Worldwide carbon fibre demand by civil engineering sectors, 2007-2014
- ◆ Worldwide carbon fibre demand for civil engineering sector, by conversion route, 2007-2014
- ◆ Worldwide demand for carbon fibre in the offshore market, 2007-2014
- ◆ CNG pressure vessel types: costs and market share
- ◆ Estimated growth in CNG pressure vessels market, and carbon fibre demand, 2007-2014
- ◆ Worldwide carbon fibre demand for bulk gas storage pressure vessels, 2007-2014
- ◆ Hydrogen-powered vehicles: worldwide growth and carbon fibre demand, 2007-2014
- ◆ Total worldwide carbon fibre demand for pressure vessels, 2007-2014
- ◆ EU installed wind energy capacity, 2007
- ◆ "Top 10" wind turbine manufacturers by installed MW, 2005-2008
- ◆ Other commercial-scale wind turbine manufacturers
- ◆ Forecast installed capacity worldwide for the "Top 10" manufacturers and 30 other companies, 2007-2014
- ◆ Global cumulative installed wind energy capacity, 2007-2014
- ◆ Global installed wind turbines, their output (MW) and carbon fibre usage, 2007-2014
- ◆ Carbon fibre usage in wind turbine blades, by processing route, 2007-2014
- ◆ Worldwide demand for carbon fibre from the industrial sector, by application, 2007-2014
- ◆ Worldwide carbon fibre demand from the industrial sector, by processing route, 2007-2024
- ◆ Worldwide carbon fibre demand from the industrial (others sectors) market, 2007-2014

TABLES AND FIGURES FEATURED IN THE REPORT (continued)

- ◆ Worldwide carbon fibre demand from the industrial (others sectors) market, by processing route, 2007-2014
- ◆ Major worldwide manufacturers of carbon fibre masts and spars
- ◆ Sports and leisure markets worldwide: carbon fibre demand, 2007-2014
- ◆ Worldwide demand for carbon fibre from the sports and leisure sector, by processing route, 2007-2014
- ◆ Reported and estimated expansions in carbon fibre production plants worldwide, 2005-2014
- ◆ Cytec Industries: financial results, 2002-2007
- ◆ Cytec Industries: sales turnover by business group, 2003-2007
- ◆ Worldwide sales for Cytec Engineered Materials, 2002-2007
- ◆ Cytec Engineered Materials: PAN carbon fibre capacity, 2007-2014
- ◆ Properties of Cytec Thornel standard modulus and intermediate modulus PAN-based carbon fibre
- ◆ Functional properties of Cytec Thornel standard modulus and intermediate modulus PAN-based carbon fibre
- ◆ Cytec: pitch based carbon fibre capacity, 2007-2014
- ◆ Properties of Cytec Thornel pitch-based carbon fibres
- ◆ Functional properties of Cytec Thornel pitch-based carbon fibres
- ◆ Formosa Plastics: carbon fibre nameplate capacity and estimated plant output, 2007-2014
- ◆ Formosa Plastics: carbon fibre sales, 2006-2007
- ◆ Properties of Tairyfil standard modulus high strength carbon fibre
- ◆ Properties of Tairyfil intermediate modulus carbon fibre
- ◆ Hexcel Corp: financial results, 2003-2007
- ◆ Hexcel Corp: sales to Boeing Co and European Aeronautical Defence and Space Co (EADS)
- ◆ Hexcel: business segments: products and primary applications
- ◆ Hexcel: sales turnover and breakdown by business group, 2005-2007
- ◆ Hexcel: net sales by geography based on location in which the sale was manufactured
- ◆ Hexcel: net sales to external customers, 2005-2007
- ◆ Hexcel: worldwide PAN carbon fibre capacities, 2007-2014
- ◆ Hexcel: properties of Magnamite continuous carbon fibre
- ◆ Hexcel: chopped fibre products
- ◆ Mitsubishi Chemical: pitch-based carbon fibre capacity, 2007-2014
- ◆ Mitsubishi Chemical: Dialead carbon fibre, standard modulus properties
- ◆ Mitsubishi Chemical: Dialead 2 k pitch-based carbon fibre; composite properties
- ◆ Mitsubishi Chemical: Dialead 10 k and 12 k pitch-based carbon fibre; composite properties
- ◆ Mitsubishi Chemical: pitch-based chopped/milled carbon fibre products
- ◆ Mitsubishi Rayon: total net sales, 2006 and 2007
- ◆ Mitsubishi Rayon: sales by business groups, 2006-2007
- ◆ Net sales and operating income of the three major Japanese carbon fibre producers
- ◆ Mitsubishi Rayon: worldwide PAN carbon fibre capacities, 2007-2014
- ◆ Properties of Grafil standard modulus high strength carbon fibre
- ◆ Properties for Mitsubishi Rayon standard, intermediate and high modulus carbon fibres
- ◆ Thermal properties of Grafil's Pyrofil carbon fibres
- ◆ Typical mechanical properties for composites containing Grafil 34-700
- ◆ Typical mechanical properties for composites containing Grafil 34-600
- ◆ Typical mechanical properties for composites containing Pyrofil TR50S
- ◆ Typical mechanical properties for composites containing Pyrofil MR40
- ◆ Typical mechanical properties for composites containing Pyrofil HR40
- ◆ Grafil chopped/milled carbon fibres
- ◆ Nippon Graphite Fiber: typical grades of Granoc fabrics
- ◆ Nippon Graphite Fiber: typical grades of Granoc prepregs
- ◆ Nippon Graphite Fiber: typical grades of Granoc chopped fibres
- ◆ Nippon Graphite Fiber: typical grades of Granoc milled fibres
- ◆ Nippon Graphite Fiber: pitch-based carbon fibre capacity, 2007-2014
- ◆ Nippon Graphite Fiber: Granoc YSH-A series pitch-based carbon fibre properties
- ◆ Nippon Graphite Fiber: Granoc YS-A series pitch-based carbon fibre properties
- ◆ Nippon Graphite Fiber: Granoc CN series pitch-based carbon fibre properties
- ◆ Nippon Graphite Fiber: Granoc XN series pitch-based carbon fibre properties
- ◆ Nippon Graphite Fiber: Granoc small tow series pitch-based carbon fibre properties
- ◆ Nippon Graphite Fiber: Granoc pitch based carbon fibre functional properties
- ◆ Nippon Graphite Fiber: Granoc YSH-A series pitch-based carbon fibre; composite properties
- ◆ Nippon Graphite Fiber: Granoc YS-A series pitch-based carbon fibre; composite properties
- ◆ Nippon Graphite Fiber: Granoc CN series pitch-based carbon fibre; composite properties
- ◆ Nippon Graphite Fiber: Granoc XN series pitch-based carbon fibre; composite properties
- ◆ SGL Carbon: structure of business units
- ◆ SGL Carbon: financial results by business unit, 2006-2007
- ◆ SGL Carbon: large tow PAN carbon fibre capacities, 2007-2014
- ◆ SGL Carbon: properties of Sigrafil continuous carbon fibre
- ◆ SGL Carbon: chopped and milled fibre product range
- ◆ Teijin: financial results, 2006 and 2007
- ◆ Teijin: financial results for Synthetic Fibres business, 2006-2007
- ◆ Toho Tenax: carbon fibre sales and income, 2006-2007
- ◆ Toho Tenax: worldwide PAN carbon fibre capacities, 2007-2014
- ◆ Toho Tenax: properties of high strength and high tenacity carbon fibres
- ◆ Toho Tenax: properties of intermediate and high modulus carbon fibres
- ◆ Toho Tenax: chopped and milled carbon fibres produced in Japan and Europe
- ◆ Toho Tenax: chopped and milled carbon fibres produced in the USA
- ◆ Toray Industries: financial results, 2003-2007
- ◆ Toray Industries: Carbon Fibre Composite Materials business sales, 2004-2007
- ◆ Toray Carbon Fibre America (CFA): nameplate carbon fibre capacity increases, 2007-2008
- ◆ Toray Composites America (TCA): carbon fibre prepreg capacity increases, 2007-2008
- ◆ Soficar SA: nameplate carbon fibre capacity increases for 2007 and 2008
- ◆ Toray Industries: Ehime plant's carbon fibre nameplate capacity increases, 2007-2009
- ◆ Toray Industries: prepreg capacity increases at Japanese plants, 2008-2009
- ◆ Toray Industries: worldwide PAN carbon fibre capacities, 2007-2014
- ◆ Properties of Torayca standard modulus high strength carbon fibres
- ◆ Properties of Torayca intermediate modulus carbon fibres
- ◆ Properties of Torayca high modulus carbon fibres
- ◆ Functional properties of Toray carbon fibre grades
- ◆ Properties of CFRPs incorporating various Toray carbon fibre grades
- ◆ CFRPs incorporating various Toray carbon fibre grades
- ◆ Properties of Toray chopped carbon fibre grades
- ◆ Zoltek: key financial data, 2003-2007
- ◆ Zoltek: large tow PAN carbon fibre capacities worldwide, 2007-2014
- ◆ Zoltek: properties of Panex 35 continuous carbon fibre
- ◆ Properties of Zoltek chopped and milled carbon fibres
- ◆ Known carbon fibre producers in China and their nameplate capacities
- ◆ Weihai Tuozhan: CCF300 grade carbon fibre technical data
- ◆ Dalian Xingke Carbon Fiber: properties of standard modulus carbon fibre grades
- ◆ Properties of BlueStar carbon fibre products
- ◆ Properties of Aksaca standard modulus PAN-based carbon fibre
- ◆ Other worldwide carbon fibre manufacturers' capacities, 2007-2014
- ◆ Small tow PAN-based carbon fibre nameplate capacities, 2007-2014
- ◆ Estimated small tow PAN-based carbon fibre plant outputs, 2007-2014
- ◆ Large tow PAN-based carbon fibre nameplate capacities, 2007-2014
- ◆ Estimated large tow PAN-based carbon fibre plant outputs, 2007-2014
- ◆ Pitch-based carbon fibre nameplate capacities, 2007-2014
- ◆ Estimated pitch-based carbon fibre plant outputs, 2007-2014
- ◆ Worldwide carbon fibre nameplate capacities, 2007-2014

TABLES AND FIGURES FEATURED IN THE REPORT (continued)

- ◆ Estimated output for carbon fibre plants worldwide, 2007-2014
- ◆ Combined worldwide PAN-based (small and large tow) and pitch-based carbon fibre plant nameplate capacities, 2007-2014
- ◆ Demand for carbon fibre worldwide, by main applications, 2007-2014
- ◆ Boeing 787 and Airbus A380 demand for intermediate (IM) carbon fibre, 2008-2010
- ◆ Worldwide carbon fibre demand from the aerospace and defence sector, 2007-2014 (tonnes)
- ◆ Worldwide demand for carbon fibre in the industrial sector, 2007-2014
- ◆ Worldwide carbon fibre demand from sports and leisure markets, 2007-2014
- ◆ Carbon fibre demand by conversion route, for all applications, 2007-2014
- ◆ Small and large tow carbon fibre usage by intermediate and composite production processes, 2007-2014
- ◆ Small and large tow availability and demand, 2007-2014
- ◆ Carbon fibre availability and carbon fibre demand, 2008-2014

FIGURES

- ◆ PAN precursor production flow chart
- ◆ PAN precursor spinning jets
- ◆ Precursor tank forming multifilaments
- ◆ Precursor fibre spool collection system
- ◆ Special acrylic fibre (SAF)-derived PAN (small tow) compared with textile acrylic precursor derived PAN (large tow)
- ◆ Schematic representation of carbon fibre preparation from PAN-based fibres
- ◆ PAN-based carbon fibre manufacturing costs
- ◆ Manufacturing process for pitch-based precursor

- ◆ Manufacturing process for pitch-based precursor
- ◆ Production of carbon fibre from rayon precursor
- ◆ Improvements in tensile strength of carbon fibres by precursor type, 1975-2008
- ◆ Geographic breakdown of carbon fibre fabric demand in 2008
- ◆ Geographic breakdown of carbon fibre demand for unidirectional prepregs in 2008
- ◆ Carbon fibre demand in the filament winding market, by region, 2008
- ◆ Carbon-carbon composite production processes
- ◆ Usage of composite materials in civil aircraft airframe structures, by aircraft type, 2008
- ◆ Schematic of composite components used on the Boeing 787
- ◆ CFRP usage on Airbus A380, by airframe component and process
- ◆ Helicopter manufacturers' market share worldwide, 2007-2014
- ◆ US Department of Defense investments in unmanned aerial vehicles by application, 2005-2009
- ◆ US Department of Defense annual funding for unmanned aircraft vehicles
- ◆ US funding for manned versus unmanned aircraft
- ◆ Number of satellites forecast to be placed into orbit, 2007-2014
- ◆ New wind energy capacity installations in 2007, by country and MW
- ◆ Largest installed wind energy capacities by country and MW, as of end of 2007
- ◆ Global installed wind energy capacities, 1996-2014
- ◆ Global cumulative installed wind energy capacities, 1996-2014
- ◆ Trends in wind turbine unit production by size class, 2007-2014
- ◆ Cytec Industries: financial results, 2002-2007
- ◆ Cytec Industries: sales turnover by business group, 2003-2007
- ◆ Cytec Engineered Materials: sales by region, 2002-2007
- ◆ Hexcel Corp: financial data, 2003-2007
- ◆ Hexcel Corp: sales to Boeing Co and EADS
- ◆ Hexcel: sales turnover and breakdown by business group, 2005-2007
- ◆ Hexcel: worldwide carbon fibre nameplate capacities, 2007-2014
- ◆ Mitsubishi Rayon: worldwide PAN carbon fibre nameplate capacities, 2007-2014
- ◆ SGL Carbon: share of sales revenue by business unit, 2006-2007
- ◆ SGL Carbon: sales revenue by region, 2006-2007
- ◆ SGL Carbon: carbon fibre nameplate capacities, 2007-2014
- ◆ Toho Tenax: worldwide nameplate production capacity of carbon fibres, 2007-2014
- ◆ Toray Industries: worldwide nameplate capacities, 2007-2014
- ◆ Zoltek: key financial results, 2003-2007
- ◆ Zoltek: net sales by product group, 2003-2007
- ◆ Carbon fibre producers: nameplate capacity share, 2008
- ◆ Carbon fibre producers' nameplate capacity share, 2014
- ◆ Nameplate carbon fibre capacity share by location, 2008
- ◆ Nameplate carbon fibre capacity share, by location, 2014
- ◆ Worldwide carbon fibre nameplate capacities share, 2007-2014
- ◆ Carbon fibre producers nameplate capacity share, 2007
- ◆ Carbon fibre producers nameplate capacity share, 2014
- ◆ Worldwide share of estimated carbon fibre output, by fibre type, 2007-2014
- ◆ Geographic distribution of nameplate carbon fibre capacities, 2007
- ◆ Geographic distribution of nameplate carbon fibre capacities, 2014
- ◆ Demand for carbon fibre worldwide, by main applications, 2007-2014
- ◆ Small and large tow supply-demand, 2007-2014
- ◆ Compound annual growth rate required to meet the available output by 2010, 2011 and 2012
- ◆ Supply and demand balance by 2010, based on 20% compound annual growth rate and plant outputs reduced to 58% small tow and 75% large tow

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Tony Roberts has over 35 years experience in the carbon fibre and advanced composites industry sectors. From the 1970s to the 1990s, he was with Courtaulds Grafil, Coventry, UK, developing the growth of applications for carbon fibres in the aerospace, industrial and sports goods sectors. In this capacity, he spent considerable time in Europe, Japan and South East Asia, developing a comprehensive understanding of global markets for carbon fibre. He subsequently moved to Mitsubishi Rayon Co Ltd, working in the USA as Sales and Marketing Director for subsidiary companies Grafil Inc and Newport Adhesives and Composites Inc. From 2005 to the present, Roberts has worked as an independent consultant, in which capacity he has carried out consultancy work in the advanced composites sector, specialising in carbon fibre, and is one of the industry's acknowledged experts.

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