

# Global Carbon Fiber Market: Trends and Opportunities (2015-2019)

August 2015



# Global Carbon Fiber Market Report

## Scope of the Report

The report titled “Carbon Fiber Market: Trends & Opportunities (2015-2019)”, analyzes the potential opportunities and significant trends in the carbon fiber industry. The report provides detailed analysis of market sizing and growth of carbon fiber by various applications for the period 2010-2014. The Industrial segment is expected to be the fastest growing segment for the next 5 years, due to technical advances. Furthermore, in carbon fiber production, USA has the highest market share. The report also provides detailed market share analysis of the carbon fiber demand and supply. The market forecast in value terms for carbon fiber market has been provided for the period 2015 to 2019, considering 2014 as the base year. The report also provides compounded annual growth rate (% CAGR) for the forecast period 2015 to 2019. Over the next five years, Carbon fiber market revenues are forecasted to grow with the wide usage in the wind energy sector in the coming years.

The report provides detailed country analysis of China carbon fiber market in terms of value, capacity and areas of application. And the report also profiles key market players such as Toray Industries Inc., Zoltek Companies Inc., Teijin Limited, Hexcel and Cyttec Industries Inc. on the basis of attributes such as company overview, recent developments, strategies adopted by the market leaders to ensure growth, sustainability, financial overview and recent developments.

## Application Areas

- Aerospace
- Consumer Sector
- Industrial Sector

## Company Coverage

- Toray Industries Inc.
- Zoltek Companies Inc.
- Teijin Limited
- Hexcel
- Cyttec Industries Inc.

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## Executive Summary

Carbon Fiber is a material consisting of very thin filaments of carbon atoms. Superior properties of carbon fiber such as high strength, high stiffness, low density, non-corrosiveness; electrical conductivity, and chemical inertness make it an ideal material in the plethora of applications such as aerospace, military, automotive, wind energy, sporting goods, and industrial applications.

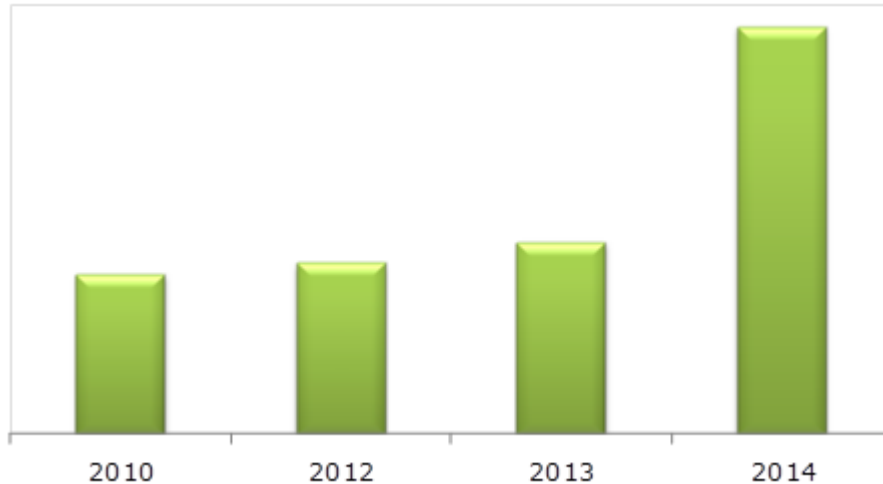
The factors leading to increased interest in the carbon fiber market include demand for more fuel efficient vehicles, structural & performance advantages, continuous emergence of novel applications, and increased demand from emerging economies. However, the market's potential is somewhat hindered by high price of carbon fiber, insufficient production capacity, processing difficulties, and lack of automation. In spite of this, there is a huge opportunity for existing & new carbon fiber producers.

Although, the adoption rate of carbon fiber is increasing, mass-market adoption will not be achieved until a few major challenges are addressed. These challenges are: high cost of production, the gap between the supply and demand, and uneven competition. Carbon fiber continues to do very well in aerospace, consumer and industrial sector, with a number of application-specific capabilities. Carbon fiber finds its application in large number of industries for example wind energy, oil and gas, automotive, civil infrastructure and tooling etc. Aerospace and defense is the top contributor of the carbon fiber market and together held more than 50% of the carbon fiber market in 2013. This growth is attributed to their wide application area. The advantages of carbon fiber make it a very attractive market for investment.

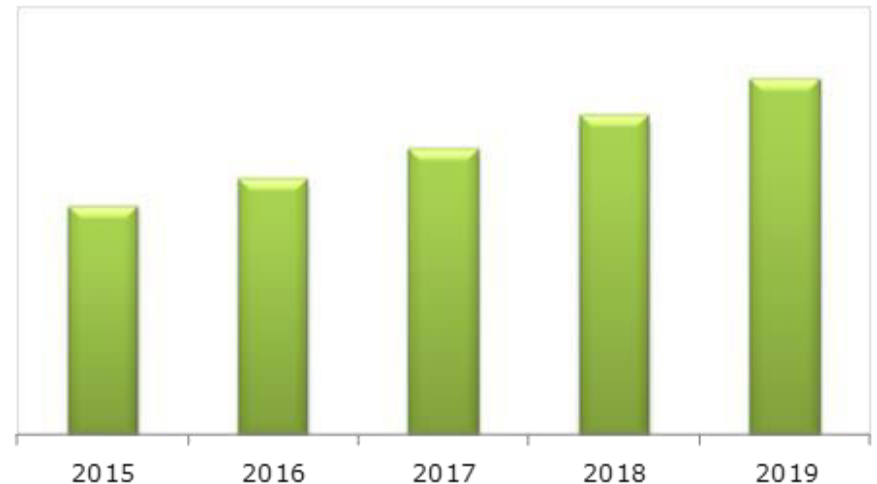
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Future growth in Carbon Fiber industry will likely be driven by emerging applications such as wind blades; nuclear centrifuge rotor tubes; laptop cases; mobile phones; and risers, tethers and umbilical in the oil and gas industry.

Global Carbon Fiber Market Size; 2010-2014 (US\$ Billion)



Global Carbon Fiber Market Forecast: 2015-2019 (US\$ Billion)



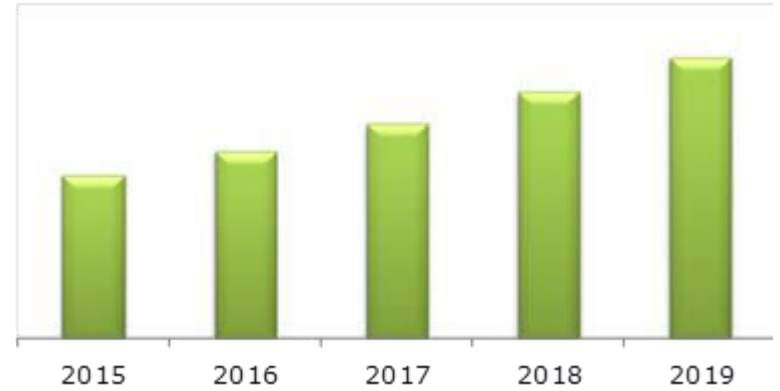
- The global market for Carbon Fiber was valued at US\$xx billion in 2014. Superior properties of carbon fiber such as high strength, high stiffness, low density, non-corrosiveness; electrical conductivity, and chemical inertness make it an ideal material in the plethora of applications such as aerospace, military, automotive, wind energy, sporting goods, and industrial applications.

# Global Carbon Fiber Market: Country Analysis

China Carbon Fiber Market Size; 2010-2014 (Tonnes)



China RFID Market Size Forecast; 2015-2019 (Tonnes)



Chinese Carbon Fiber Market by Application (2011)

