

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Synthetic Spider Silk Market 2018, Forecast to 2023

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Abstracts

Spider silk is among the strongest known biomaterials. It is the silk used for the framework of the web and it is used to catch the spider if it falls. As such, it is stronger and much more flexible than KEVLAR®. Due to its incredible mechanical properties, spider silk is being considered for use as a new biomaterial for drug delivery and tendon and ligament replacement/repair, as well as athletic gear, military applications, airbags, and tire cords. However, spiders cannot be farmed for their silk as they are cannibalistic and territorial. The most reasonable alternative for producing spider silk fibers is to utilize genetic engineering to produce the proteins in a foreign host and then spin fibers from the synthetic protein.

Scope of the Report:

This report focuses on the Synthetic Spider Silk in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

Spider silks possess nature's most exceptional mechanical properties, with unrivalled extensibility and high tensile strength. All of these excellent properties make spider silks a desirable material for many applications in several different fields. However, spiders can't be farmed. Therefore, methods of mass-producing Synthetic Spider Silk have been developed.

Companies and institutes have dedicated in the research of synthesis spider silks for many years. And several technologies have been proposed, such as modified silkworm, modified yeast fermentation, modified E. Coli fermentation, transgenic alfalfa, transgenic goat, ant others. The common ground of those technologies is that specific sequences of spider silk DNA are inserted in a foreign host to product spider silk protein and then

spin fibers from the synthetic protein. Among them, the first three technologies are proven viable. Until now, there are still two barriers have stymied production. These barriers are the inability to form these proteins into a spider silk fiber with the desired mechanical characteristics, and to do this cost effectively.

At present, only four companies have realized the commercial production, Bolt Threads, Kraig Biocraft Laboratories, Spiber and AMSilk. All of them cooperate closely with the downstream companies to launch high-performance products. The downstream players including North Face, Adidas, Lexus, Warwick Mills, Patagonia and American military. The worldwide market for Synthetic Spider Silk is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US\$ in 2023, from xx million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Bolt Threads

Kraig Biocraft Laboratories

Spiber

AMSilk

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Genetically Modified Yeast Fermentation

Genetically Modified Silkworm

Genetically Modified E. Coli Fermentation

Others

Market Segment by Applications, can be divided into

Automobile

Textile

Health Care

Military

Other

There are 15 Chapters to deeply display the global Synthetic Spider Silk market.

Chapter 1, to describe Synthetic Spider Silk Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Synthetic Spider Silk, with sales, revenue, and price of Synthetic Spider Silk, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Synthetic Spider Silk, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Synthetic Spider Silk market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Synthetic Spider Silk sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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