

Global Synthetic Spider Silk market Size study, by Technology (Genetically Modified E-coli Fermentation, Genetically Modified Silkworm, Genetically Modified Yeast Fermentation, Others), by Application (Automotive, Defense, Healthcare, Textile, Others), and Regional Forecasts 2021-2027

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Abstracts

Global Synthetic Spider Silk market is valued at approximately USD XX billion in 2020 and is anticipated to grow with a healthy growth rate of more than XX % over the forecast period 2021-2027. Spider silk is a type of protein fibre made by spiders. Silk is used to make webs and other structures, such as nets to catch prey, cocoons to protect babies, and wraps to wrap up animals. Silk is also utilized for suspension, floatation, and a variety of other purposes. Because extracting spider silk has proven to be a tough operation, a synthetic version of spider silk has been developed that could be commercialized. A replacement to spider silk has been developed that has the strength, energy-absorbing capacity, and suppleness of spider silk. Furthermore, spider silk is created in the lab from hydrogel, which is made up of 98 percent water and 2% cellulose and silica. Cucurbiturils bind cellulose and silica together. Although synthetic spider silks are not as strong as genuine spider silks, they are far stronger than other synthetic fibres such as nylon. Furthermore, these spider silks are biodegradable and inexpensive, and they can be manufactured at room temperature without the need of chemical solvents. To stay competitive in the synthetic spider silk market, leading companies are employing a variety of methods such as product launches, agreements, partnerships, and investments. For instance, in June 2021, Kraig Biocraft Laboratories, Inc. invested in new equipment at its Vietnam manufacturing facility. This investment was made to improve the above-mentioned production facility's operations. Similarly, in November 2018, Kraig Biocraft Laboratories, Inc. created a genetically altered silkworm

strain for the United States Army's protective textile applications. This development bolstered the company's position in terms of end-market performance. However, high cost of hematology analyzers may impede the market growth over the forecast years.

The regional analysis of the Global Synthetic Spider Silk market is segmented for the key regions such as North America, Europe, Asia Pacific, Latin America, and Rest of the World (ROW). North America is the dominating region across the world in terms of market share as demand for synthetic spider silk in bulletproof vests in the defense sector looks optimistic in the region. Whereas Asia Pacific is also anticipated to exhibit the highest growth rate over the forecast period 2021-2027, due to rise in demand for textile products and huge consumer base in the region.

Major market player included in this report are:

Kraig Biocraft Laboratories Inc.

AMSilk GmbH

Bolt Threads Spiber Inc.

Seevix

Inspidere BV

Technology Holding LLC

Spintex Engineering Ltd

Spiber Technologies SE

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Genetically Modified E-coli Fermentation

Genetically Modified Silkworm

Genetically Modified Yeast Fermentation

Others

By Application:

Automotive

Defense

Healthcare

Textile

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018,2019

Base year – 2020

Forecast period – 2021 to 2027.

Target Audience of the Global Synthetic Spider Silk market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists
Value-Added Resellers (VARs)
Third-party knowledge providers
Investment bankers
Investors

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