

Global Synthetic Spider Silk Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

<https://marketpublishers.com/r/G3FEE78A9C87EN.html>

Date: April 2024

Pages: 171

Price: US\$ 3,950.00 (Single User License)

ID: G3FEE78A9C87EN

Abstracts

Summary

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.

According to APO Research, The global Synthetic Spider Silk market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

The US & Canada market for Synthetic Spider Silk is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Synthetic Spider Silk is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Synthetic Spider Silk is estimated to increase from \$ million in

2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Synthetic Spider Silk is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Synthetic Spider Silk include Bolt Threads, Kraig Biocraft Laboratories, Spiber and AMSilk, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

In terms of production side, this report researches the Synthetic Spider Silk production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Synthetic Spider Silk by region (region level and country level), by company, by type and by application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Synthetic Spider Silk, capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Synthetic Spider Silk, also provides the consumption of main regions and countries. Of the upcoming market potential for Synthetic Spider Silk, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Synthetic Spider Silk sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Synthetic Spider Silk market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by type and by application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Synthetic Spider Silk sales, projected growth trends, production technology, application and end-user industry.

Synthetic Spider Silk segment by Company

Bolt Threads

Kraig Biocraft Laboratories

Spiber

AMSilk

Synthetic Spider Silk segment by Type

Genetically Modified Yeast Fermentation

Genetically Modified Silkworm

Genetically Modified E. Coli Fermentation

Others

Synthetic Spider Silk segment by Application

Automobile

Textile

Health Care

Military

Others

Synthetic Spider Silk segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries

and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Synthetic Spider Silk market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of Synthetic Spider Silk and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market.

5. This report helps stakeholders to gain insights into which regions to target globally.

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Synthetic Spider Silk.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Provides an overview of the Synthetic Spider Silk market, including product definition, global market growth prospects, production value, capacity, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Synthetic Spider Silk industry.

Chapter 3: Detailed analysis of Synthetic Spider Silk market competition landscape. Including Synthetic Spider Silk manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product

type, application, merger and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of Synthetic Spider Silk by region. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 8: Consumption of Synthetic Spider Silk in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights of the report.

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