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Silk Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Mulberry Silk, Tussar Silk, Eri Silk), By Production Process (Cocoon Production, Reeling, Throwing, Weaving, Dyeing), By Application (Textile, Cosmetics & Medical), By Region and Competition, 2020-2030F

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Abstracts

Market Overview

Global Silk Market was valued at USD 18.76 billion in 2024 and is expected to reach USD 31.05 billion in the forecast period with a CAGR of 8.72% through 2030. The growth of the global silk market is being primarily driven by the increasing consumer inclination toward natural and sustainable fibers. As environmental concerns rise and consumers become more eco-conscious, silk has gained prominence for being biodegradable, renewable, and low-impact compared to synthetic alternatives. This has particularly resonated within the fashion and home furnishing sectors, where both brands and consumers are actively seeking greener fabric options. Additionally, innovations in organic sericulture practices are helping improve yield and quality, further supporting the growth trajectory.

Moreover, the booming luxury apparel segment has significantly bolstered demand for silk. Its natural sheen, softness, and premium appeal make it a preferred fabric for high-end garments, accessories, and traditional wear. Asia-Pacific, especially countries like China, India, and Thailand, continue to dominate both production and consumption, owing to silk’s deep-rooted cultural and ceremonial relevance. Meanwhile, Western markets are witnessing a surge in demand for silk in designer clothing, bridal couture, and personalized home d?cor applications, expanding the global footprint.

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The medical and cosmetics industries are also emerging as promising growth frontiers for the silk market. Silk fibroin, a protein extracted from silk, is increasingly being used in biomedical applications such as wound healing, surgical sutures, and tissue engineering due to its biocompatibility and regenerative properties. Additionally, silk proteins are gaining traction in skincare and haircare products for their moisturizing and anti-aging benefits. These diversified applications, coupled with supportive government initiatives in sericulture development, are expected to continue propelling the market through 2030.

Key Market Drivers

Rising Demand for Natural and Eco-Friendly Fibers

The shift toward sustainability has sparked significant growth in the demand for natural fibers like silk. In a 2024 survey, nearly 73% of global consumers reported a preference for eco-friendly clothing materials over synthetics. This change is especially visible among millennials and Gen Z shoppers who prioritize biodegradable and non-toxic fabrics. As silk is derived from natural sources and has a low environmental footprint, it is gaining attention as an ideal alternative in eco-conscious apparel collections, particularly in luxury and heritage fashion segments.

Growing awareness of the harmful impact of synthetic textiles on ecosystems has further accelerated interest in biodegradable fabrics like silk. Around 92 million tons of textile waste is generated globally each year, with synthetic fibers taking hundreds of years to decompose. In contrast, silk decomposes naturally, leaving no toxic residue. Brands are now adopting silk not only for its aesthetic appeal but also to meet corporate sustainability goals and to comply with emerging textile waste reduction regulations worldwide.

The adoption of sustainable fibers is being driven at both the consumer and regulatory levels. In 2025, over 60 countries are expected to introduce or tighten regulations mandating the use of sustainable raw materials in textile production. This global policy push is encouraging fashion brands and textile manufacturers to increase their sourcing of organic and eco-friendly fabrics like silk. Additionally, supply chain transparency has become a purchasing factor, with consumers demanding certifications that ensure their silk is ethically sourced and environmentally responsible.

Retailers and fashion houses are responding swiftly to these demands. In a recent

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study, 58% of fashion companies stated they are planning to phase out virgin polyester by 2030, replacing it with natural or recycled alternatives. Silk, being durable, luxurious, and eco-friendly, fits well into this transition. Beyond clothing, demand for silk is also growing in home furnishings, accessories, and sleepwear, driven by both environmental and comfort factors. This positions silk as a key material in the evolving sustainable textile ecosystem.

Key Market Challenges

Dependence on Traditional Sericulture Practices

One of the major challenges confronting the global silk market is its persistent dependence on traditional sericulture practices, which remain largely manual, time-consuming, and climate sensitive. In many key silk-producing countries like India, China, Thailand, and Vietnam, sericulture is still carried out in small-scale rural settings with minimal mechanization. Silkworm rearing, cocoon harvesting, and reeling processes depend heavily on favorable climatic conditions and skilled labor. Any disruption—be it drought, excessive rainfall, or pest infestations—can significantly reduce cocoon yield and quality. Additionally, the reliance on mulberry cultivation, which itself requires fertile land and ample water, adds another layer of vulnerability. These limitations hinder scalability and output consistency, restricting global supply at a time when demand is rising, especially from the fashion and home furnishing sectors.

This over-reliance on traditional methods also creates bottlenecks in modernization and efficiency improvements. Most rural sericulture units lack access to advanced equipment, cold storage for silkworm eggs, or disease-control infrastructure. Moreover, there is often limited awareness or adoption of improved silkworm breeds and scientific rearing techniques that can boost yield. As a result, productivity per hectare remains relatively low, and many silk-producing regions struggle to meet growing domestic and international demand. Labor shortages—especially among younger generations unwilling to pursue sericulture as a livelihood—further worsen the situation. Without technological upgrades and policy-driven incentives for mechanization and training, traditional practices may continue to limit output, reduce quality uniformity, and increase production costs, ultimately posing a major obstacle to the long-term sustainability and competitiveness of the global silk industry.

Key Market Trends

Rise of Biotech & Lab-Grown Silk

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The emergence of biotech and lab-grown silk represents a transformative shift in the global silk industry. Instead of relying on traditional sericulture, companies are now developing silk proteins through microbial fermentation, using genetically engineered bacteria, yeast, or even algae. This method eliminates the need for silkworms and land-intensive mulberry farming, making the process more scalable and environmentally sustainable. Brands like Spiber (Japan) and AMSilk (Germany) are pioneers in this space, creating bio-fabricated silk materials that replicate the texture, strength, and luster of natural silk. These innovations are particularly appealing to eco-conscious consumers and brands seeking to reduce animal cruelty and environmental footprint. Moreover, the production of lab-grown silk can be precisely controlled for consistency, offering a solution to the variability and ethical challenges of traditional silk harvesting.

What makes biotech silk even more promising is its expanding application across diverse industries beyond fashion. Leading fashion houses have already begun collaborating with biotech firms to develop sustainable alternatives for garments, footwear, and accessories. For example, Spiber has partnered with The North Face to create a prototype parka using lab-grown silk, signaling its potential in high-performance wear. Additionally, AMSilk's silk proteins are being used in biodegradable running shoes and watch straps, merging performance and sustainability. Lab-grown silk is also gaining interest in aerospace and medical fields for its lightweight yet durable characteristics. As the demand for ethical and high-performance materials grows, biotech silk is poised to redefine how luxury, functionality, and sustainability intersect, offering a future-forward alternative that meets both environmental and industrial demands.

Key Market Players

Anhui silk Co. Ltd.

Kraig Biocraft Laboratories, Inc.

Wujiang First Textile Co., Ltd.

Wujiang Wanshiyi silk Co., Ltd.

Zhejiang Jiaxin silk Corp., Ltd.

EntoGenetics, Inc.

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Bolt Threads Inc

Sichuan Nanchong Liuhe (Group) Co., Ltd

AMSilk GmbH

China Zhongsi Group Co., Ltd

Report Scope:

In this report, global silk market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Silk Market, By Type:

Mulberry Silk

Tussar Silk

Eri Silk

Silk Market, By Production Process:

Cocoon Production

Reeling

Throwing

Weaving

Dyeing

Silk Market, By Application:

Textile

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- Cosmetics
- Medical

Silk Market, By Region:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - Germany
  - France
  - United Kingdom
  - Italy
  - Spain
- Asia-Pacific
  - China
  - Japan
  - India
  - South Korea
  - Australia
- Middle East & Africa

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South Africa

Saudi Arabia

UAE

Kuwait

South America

Brazil

Argentina

Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in global silk market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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