

Global Copper Ion Antibacterial Yarn Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Copper Ion Antibacterial Yarn market size is expected to reach \$ 16999 million by 2032, rising at a market growth of 11.1% CAGR during the forecast period (2026-2032).

In 2025, global sales of copper ion antibacterial yarn reached 96,000 tons, with an average selling price of US\$82,000 per ton. Copper ion antibacterial yarn achieves long-term inhibition of bacteria and fungi by introducing copper ions or copper-based antibacterial masterbatches into polyester, nylon, or recycled fibers. It also possesses washability, heat resistance, and safety, and is mainly used in medical textiles, functional clothing, home textiles, and public health products. Upstream raw materials include basic chemical fiber chips, copper salts or nano-copper antibacterial masterbatches, and spinning auxiliaries; midstream involves melt spinning or composite spinning; downstream suppliers are medical consumable manufacturers, functional clothing brands, and home textile companies. In 2025, the global total production capacity was approximately 112,000 tons, with a capacity utilization rate of approximately 86%, and an average industry gross profit margin of approximately 34%. Demand and business opportunity analysis shows that medical infection control, increased public health awareness, and functional consumption upgrades are driving continued demand growth. Future prospects lie in highly dispersed and stable copper ion systems, low-addition, highly efficient antibacterial products, and environmentally friendly products combined with recycled fibers, which will further enhance added value and market space.

This report studies the global Copper Ion Antibacterial Yarn production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Copper Ion Antibacterial Yarn and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Copper Ion Antibacterial Yarn that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Copper Ion Antibacterial Yarn total production and demand, 2021-2032, (Kilotons)

Global Copper Ion Antibacterial Yarn total production value, 2021-2032, (USD Million)

Global Copper Ion Antibacterial Yarn production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Copper Ion Antibacterial Yarn consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Copper Ion Antibacterial Yarn domestic production, consumption, key domestic manufacturers and share

Global Copper Ion Antibacterial Yarn production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Copper Ion Antibacterial Yarn production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Copper Ion Antibacterial Yarn production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Copper Ion Antibacterial Yarn market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MATEXCEL, JIAYI, Suzhou Junhui Textile Co.,Ltd., HangZhou YongXing Chemical Fire Co.,Ltd, Suzhou Hanyun New Material Technology Co., Ltd., Annie's Smartex Co., Ltd, LANGYI, OIKE & Co., Ltd., Zhejiang Haili Environmental Technology Co.,Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Copper Ion Antibacterial Yarn market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Copper Ion Antibacterial Yarn Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Copper Ion Antibacterial Yarn Market, Segmentation by Type:

Blended Spinning Type

Fiber Modified Grafting Type

Finishing Coating Type

Global Copper Ion Antibacterial Yarn Market, Segmentation by Matrix Fiber Material:

Polyester-based

Cotton/Regenerated Cellulose-based

Nylon-based

Others

Global Copper Ion Antibacterial Yarn Market, Segmentation by Copper Ion Content:

Copper Ion Content: 0.3% - 1.5%

Copper Ion Content: 1.5% - 3.0%

Global Copper Ion Antibacterial Yarn Market, Segmentation by Application:

Medical Textiles

Home Textiles

Functional Clothing

Others

Companies Profiled:

MATEXCEL

JIAYI

Suzhou Junhui Textile Co.,Ltd.

HangZhou YongXing Chemical Fire Co.,Ltd

Suzhou Hanyun New Material Technology Co., Ltd.

Annie's Smartex Co., Ltd

LANGYI

OIKE & Co., Ltd.

Zhejiang Haili Environmental Technology Co.,Ltd.

Key Questions Answered:

1. How big is the global Copper Ion Antibacterial Yarn market?
2. What is the demand of the global Copper Ion Antibacterial Yarn market?
3. What is the year over year growth of the global Copper Ion Antibacterial Yarn market?
4. What is the production and production value of the global Copper Ion Antibacterial Yarn market?
5. Who are the key producers in the global Copper Ion Antibacterial Yarn market?
6. What are the growth factors driving the market demand?

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