

# Global Self-extinguishing Synthetic Fiber Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Self-extinguishing Synthetic Fiber market size is expected to reach \$ 1755 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

Self-extinguishing synthetic fiber refers to a class of man-made polymer fibers engineered to automatically stop burning when the external ignition source is removed, due to their inherent flame-resistant chemical structure or permanent flame-retardant modification, thereby preventing flame propagation, reducing smoke generation, and improving fire safety performance in protective textiles, transportation interiors, industrial materials, and construction applications.

The self-extinguishing synthetic fiber industry chain begins upstream with petrochemical feedstocks, specialty monomers, polymer intermediates, flame-retardant additives, and fiber spinning equipment suppliers, followed midstream by polymerization, spinning, drawing, and finishing operations carried out by specialty fiber manufacturers producing inherently flame-resistant fibers and modified flame-retardant fibers, while downstream demand is driven by protective clothing producers, industrial textile manufacturers, aerospace and automotive interior suppliers, electrical insulation material producers, filtration media companies, and construction safety material providers, supported by textile converters, distributors, safety equipment brands, and regulatory compliance requirements across fire safety, occupational protection, and transportation industries worldwide.

Globally, several self-extinguishing synthetic fiber capacity expansion projects are underway, including new aramid fiber production lines in Asia to meet growing demand for protective clothing and aerospace materials, modacrylic fiber plant upgrades in North

America and Europe focused on flame-resistant textile markets, specialty polyimide and polyphenylene sulfide fiber facilities being developed in East Asia for high-temperature filtration and industrial applications, and modernization projects across existing fiber manufacturing plants incorporating automated spinning systems, energy-efficient polymerization technologies, advanced solvent recovery systems, and digital process monitoring platforms aimed at improving production efficiency, product consistency, and supply reliability for rapidly expanding fire safety and industrial protection markets.

2025 Global Market Sales Volume: 120 Thousand Tons, Average Global Market Price: USD 8,500 / Ton, Market Average Gross Profit Margin: 28%.

This report studies the global Self-extinguishing Synthetic Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Self-extinguishing Synthetic Fiber 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 Self-extinguishing Synthetic Fiber that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Self-extinguishing Synthetic Fiber total production and demand, 2021-2032, (Tons)

Global Self-extinguishing Synthetic Fiber total production value, 2021-2032, (USD Million)

Global Self-extinguishing Synthetic Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Self-extinguishing Synthetic Fiber consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Self-extinguishing Synthetic Fiber domestic production, consumption, key domestic manufacturers and share

Global Self-extinguishing Synthetic Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Self-extinguishing Synthetic Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Self-extinguishing Synthetic Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Self-extinguishing Synthetic Fiber 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 KANEKA, DuPont, Formosa Plastics Group, Teijin Aramid, Asahi Kasei, YANTAI TAYHO ADVANCED MATERIALS, TORAY, 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 Self-extinguishing Synthetic Fiber market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Self-extinguishing Synthetic Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Self-extinguishing Synthetic Fiber Market, Segmentation by Type:

Aramid Fiber

Modacrylic Fiber

Polyimide Fiber

Others

### Global Self-extinguishing Synthetic Fiber Market, Segmentation by Thermal Performance:

High Temperature Resistant

Medium Temperature Resistant

Heat Insulating Resistant

### Global Self-extinguishing Synthetic Fiber Market, Segmentation by Fiber Form:

Staple Fiber

Continuous Filament Fiber

Others

### Global Self-extinguishing Synthetic Fiber Market, Segmentation by Application:

Protective Clothing and Firefighting Apparel

Industrial Heat Protection Textiles

Aircraft and Automotive Interior Materials

Electrical Insulation Materials

Others

#### Companies Profiled:

KANEKA

DuPont

Formosa Plastics Group

Teijin Aramid

Asahi Kasei

YANTAI TAYHO ADVANCED MATERIALS

TORAY

#### Key Questions Answered:

1. How big is the global Self-extinguishing Synthetic Fiber market?
2. What is the demand of the global Self-extinguishing Synthetic Fiber market?
3. What is the year over year growth of the global Self-extinguishing Synthetic Fiber market?
4. What is the production and production value of the global Self-extinguishing Synthetic Fiber market?
5. Who are the key producers in the global Self-extinguishing Synthetic Fiber market?
6. What are the growth factors driving the market demand?

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