

Global Aramid Fiber for PPE Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aramid Fiber for PPE market size is expected to reach \$ 880 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Aramid Fiber for PPE refers to high-performance aromatic polyamide fiber engineered for personal protective equipment requiring inherent flame resistance, thermal stability, mechanical strength, cut resistance, abrasion resistance, arc-flash protection, ballistic resistance, and long-term durability. The market covers both meta-aramid and para-aramid fibers supplied in staple, continuous-filament, and short-cut forms for subsequent conversion into yarns, fabrics, nonwovens, protective composites, and other PPE structures. Meta-aramid is primarily valued for inherent heat and flame resistance, dimensional stability at elevated temperatures, and textile processability, making it particularly important in firefighting garments, industrial flame-resistant workwear, electrical arc protective clothing, and emergency-response apparel. Para-aramid combines high tensile strength, high modulus, low density, heat resistance, cut resistance, and impact-energy absorption, supporting protective gloves and sleeves as well as ballistic body armor, helmets, and protective inserts.

Key Findings

Meta-aramid is the core heat- and flame-resistant fiber category for firefighting and industrial thermal protective clothing

Para-aramid is widely used where PPE requires cut resistance, mechanical strength, heat resistance, or ballistic protection

Firefighting, industrial thermal and arc-flash protection, cut-resistant gloves, and ballistic protection form the principal PPE application groups

Multi-hazard protection combining thermal, mechanical, and electrical protection is becoming increasingly important in advanced PPE design

Circular content, longer garment life, and lower-impact fiber processing are emerging competitive dimensions in protective aramids

Market Trends

Aramid Fiber for PPE is evolving from single-hazard protective materials toward engineered fiber systems designed to address multiple hazards while improving wearer comfort, durability, and lifecycle sustainability. In thermal PPE, meta-aramid remains fundamental because its flame resistance is inherent to the polymer rather than dependent on a surface treatment, allowing protective performance to remain after repeated use and laundering. New product development is increasingly combining meta-aramid with para-aramid and conductive or functional fibers to balance thermal protection, tear strength, mechanical durability, antistatic performance, and garment weight. Teijin Aramid's protective-wear portfolio illustrates this trend through combinations of Teijinconex, Twaron, and Technora in firefighting and industrial clothing, while Yantai Tayho uses blends of Newstar meta-aramid, Tapanar para-aramid, and conductive fibers in specialized protective fabrics. Sustainability is becoming a second major direction. Dope-dyed fibers are being used to reduce dyeing-related resource consumption, more durable garments are being positioned as a way to reduce replacement frequency, and circular-content para-aramids are entering commercial production. Teijin Aramid launched Twaron Next with circular and bio-based feedstock options, while DuPont's recent PPE innovation programs have highlighted recyclability, lower-impact finishes, and multi-hazard protection as major development themes.

Market Dynamics

Drivers

Demand for Aramid Fiber for PPE is supported by occupational safety requirements in industries where workers face flame, heat, electric arc, mechanical, cutting, abrasion,

and impact hazards. In the United States, OSHA requirements for electric-power work require hazard assessment and, under specified conditions, flame-resistant and arc-rated clothing with protection appropriate to the available incident energy. The European Union's PPE Regulation similarly establishes essential health and safety requirements for PPE placed on the market. These regulatory frameworks reinforce long-term demand for protective materials with repeatable and certifiable performance. End-user expectations are also increasing. Firefighters, utility workers, oil and gas personnel, industrial workers, military personnel, and emergency responders increasingly require garments that provide protection without excessive weight or stiffness. Meta-aramid's inherent flame resistance and para-aramid's high strength-to-weight ratio allow PPE manufacturers to improve protection while maintaining mobility and comfort. Protective-glove applications provide a similar value proposition, where fine aramid fibers can combine cut, heat, and abrasion resistance with dexterity.

Restraints

The principal restraint is the relatively high cost of aramid fiber compared with conventional cotton, polyester, nylon, standard flame-retardant textiles, and other lower-cost fibers. Aramid is therefore concentrated in PPE applications where inherent flame resistance, exceptional mechanical strength, thermal stability, or ballistic performance justify the material premium. Product qualification also limits rapid substitution. Protective apparel and ballistic equipment must be engineered as complete systems, meaning fiber selection interacts with yarn construction, fabric weight, weave or knit architecture, blends, coatings, garment design, and certification performance. In high-risk applications, customers prioritize consistency and proven field performance, creating long qualification cycles and strong incumbent-supplier relationships. Another limitation is that para-aramid and meta-aramid address different performance requirements and cannot be treated as universal substitutes. Meta-aramid provides superior textile-oriented thermal protection, while para-aramid is selected primarily when high tenacity, cut resistance, reinforcement, or ballistic energy absorption is required. PPE manufacturers therefore frequently need blended or multilayer solutions, which raise formulation, processing, and inventory complexity.

Opportunities

The largest opportunities for Aramid Fiber for PPE are associated with multi-hazard industrial PPE, electrical arc-flash protection, lighter firefighter garments, advanced cut-resistant gloves, and next-generation ballistic protection. Electrification, renewable-

energy infrastructure, utilities, battery production, and other electrical-intensive industries increase the number of work environments in which thermal and arc hazards must be managed. OSHA's electric-power requirements continue to reinforce the use of appropriately rated flame-resistant clothing, while new PPE development increasingly seeks to combine arc, flame, cut, and mechanical protection in a single garment or glove system. Ballistic protection offers another high-value innovation path. DuPont's Kevlar EXO platform was introduced for lighter and more flexible soft body armor and was expanded into hard-armor applications such as helmets and plate inserts in 2025, demonstrating continued technical development in para-aramid life protection. Sustainability also creates material opportunities through recycled-content fibers, dope-dyed meta-aramid, durable repairable garments, bio-based feedstock, and designs that extend PPE service life. These developments allow suppliers to compete on lifecycle cost and environmental performance in addition to conventional protective properties.

Challenges

Aramid Fiber for PPE suppliers face demanding technical challenges because protective performance depends on consistent polymer chemistry, spinning quality, fiber linear density, mechanical properties, thermal stability, dyeing characteristics, and downstream textile compatibility. Meta-aramid fiber must maintain flame and dimensional performance under repeated heat exposure and laundering, while para-aramid products used in cut or ballistic applications require high and stable strength, modulus, filament quality, and impact behavior. Yantai Tayho's commercial meta-aramid portfolio, for example, spans multiple staple and filament specifications and emphasizes long-duration thermal stability, inherent flame resistance, and textile processability, illustrating the breadth of product engineering required for different protective structures. Standards and certification add another layer of complexity because protective performance is evaluated at fabric, garment, glove, helmet, or armor-system level rather than solely at the raw-fiber level. Suppliers therefore require close technical cooperation with yarn producers, textile mills, PPE manufacturers, testing laboratories, and end users. A further challenge is maintaining protection while reducing garment weight and improving breathability, flexibility, colorfastness, wash durability, recycled content, and environmental performance. These objectives can conflict with one another and require continuous fiber and textile optimization.

Industry Chain Analysis

The Aramid Fiber for PPE industry chain begins with aromatic chemical intermediates used for para-aramid and meta-aramid polymerization. Meta-aramid production uses aromatic monomers to produce PMIA polymer, which is subsequently spun and processed into staple, filament, tow, or short-cut fiber. Para-aramid production produces PPTA-based high-strength fiber through specialized polymerization and spinning technologies. Midstream manufacturers create value through polymer quality, spinning process control, fiber linear density, tensile properties, thermal resistance, solution dyeing or dope dyeing, surface characteristics, consistency, and application-specific fiber design. Yantai Tayho provides both Newstar meta-aramid and Tapanan para-aramid for personal protection, while Teijin Aramid supplies Teijinconex, Twaron, and Technora across thermal, mechanical, and ballistic protection.

Downstream conversion differs by PPE function. Staple meta-aramid is spun into yarn and converted into woven or knitted fabrics for flame-resistant workwear and firefighter garments, often blended with para-aramid to improve mechanical strength. Continuous para-aramid filament is converted into yarn, fabric, laminates, or composite structures for ballistic armor and high-strength protection, while cut-resistant glove manufacturers engineer yarn structures that optimize fiber fineness, grip, durability, and dexterity. Value creation increasingly shifts toward application engineering as the fiber moves downstream: the same raw fiber can generate substantially different protective performance depending on blend ratio, yarn architecture, fabric construction, layer configuration, finishing, and garment design. Long-term supplier competitiveness therefore depends on collaboration throughout the textile and PPE value chain rather than raw-fiber production capacity alone.

Segment Insights

By chemical structure, meta-aramid and para-aramid serve complementary roles within Aramid Fiber for PPE. Meta-aramid is the core fiber for thermal protective clothing because it offers inherent flame resistance, thermal stability, textile processability, and resistance to melting or dripping. DuPont Nomex and Teijinconex are positioned directly for heat, flame, arc-flash, firefighter, and industrial workwear applications, while Yantai Tayho's Newstar meta-aramid is used in firefighting, petroleum, power, chemical, and other high-temperature protective clothing. Para-aramid addresses higher mechanical-performance requirements, including cut-resistant gloves, reinforcement of thermal garments, and ballistic protection. Twaron is used in industrial gloves for cut, heat, and abrasion resistance and in body armor for impact protection, while Tapanan is commercially positioned for protective suits and cut-resistant gloves.

By individual fiber linear density, fine-denier fibers are particularly relevant where flexibility, surface coverage, comfort, and dexterity are important. Teijin Aramid uses approximately 1.7 dtex Twaron fiber in industrial safety gloves to balance durability and dexterity, supporting the strategic value of fine-fiber engineering in hand protection. Medium- and coarse-denier fibers address progressively different combinations of textile strength, durability, processing behavior, and reinforcement requirements. By delivery form, staple fiber is central to protective apparel because it can be processed on conventional textile systems and blended with other functional fibers, while continuous filament is more important in high-tenacity reinforcement, ballistic structures, and selected cut-resistant constructions. Short-cut fiber serves specialized reinforcement and composite-style protective structures. The relative value of each segment therefore depends on protective performance and processing requirements rather than fiber size alone.

Downstream Market Opportunities

Firefighting and emergency-response PPE represents a major high-performance application for Aramid Fiber for PPE because garments must retain integrity when exposed to flame, radiant heat, flashover risk, repeated cleaning, and demanding physical activity. Meta-aramid provides the thermal foundation, while para-aramid can improve tear and mechanical performance; Teijin Aramid explicitly uses combinations of Teijinonex, Twaron, and Technora in firefighter solutions. Industrial thermal and arc-flash PPE represents another core opportunity across power utilities, oil and gas, chemicals, manufacturing, and other high-risk operations, supported by regulatory requirements and growing emphasis on multi-hazard clothing. Cut-resistant gloves and sleeves form a large mechanical-protection application where para-aramid combines cut, abrasion, heat resistance, and durability. Ballistic personal protection provides a smaller-volume but higher-value opportunity through soft body armor, helmets, and protective inserts, where advanced para-aramid materials compete primarily on protection-to-weight ratio, flexibility, durability, and impact-energy management.

Regional Insights

North America and Europe are mature high-value markets for Aramid Fiber for PPE because of established occupational-safety regulation, significant utility and industrial workforces, mature firefighting and emergency-response systems, and substantial

demand for advanced ballistic and law-enforcement protection. OSHA maintains detailed PPE and electric-arc protection requirements in the United States, while the European Union's Regulation (EU) 2016/425 establishes mandatory health, safety, conformity, and market requirements for PPE sold within the EU. These regulatory environments favor certified protective systems with documented thermal, arc, mechanical, and durability performance. North America is also an important center for ballistic innovation; DuPont manufactures Kevlar EXO in Virginia and has expanded the material from soft armor into hard-armor applications.

Asia-Pacific is an important production and increasingly significant consumption center. China has developed commercial production of both meta-aramid and para-aramid for personal protection, with Yantai Tayho operating dedicated meta-aramid capacity for PPE and supplying Newstar and Tapanar fibers into protective clothing and gloves. The region's large manufacturing, power, construction, petrochemical, electronics, and infrastructure sectors create a broad occupational-safety customer base, while domestic aramid production strengthens material availability and cost competitiveness. Regional market development therefore combines mature premium demand in North America and Europe with growing local supply capability and industrial PPE adoption across Asia.

Competitive Landscape Analysis

The Aramid Fiber for PPE market is characterized by substantial technological barriers and a relatively concentrated group of manufacturers capable of producing qualified meta-aramid and para-aramid fibers with consistent thermal and mechanical performance. DuPont maintains a broad personal-protection portfolio through Nomex and Kevlar. Nomex is positioned across firefighting, industrial heat and flame, and arc-flash applications, while Kevlar serves cut and mechanical protection and ballistic life-protection markets. The company continues to develop higher-performance para-aramid technology through Kevlar EXO and in 2025 expanded the platform from soft armor into hard-armor helmets and inserts. Teijin Aramid competes through a complementary portfolio of Teijinconex meta-aramid and Twaron and Technora high-performance aramids, with applications spanning firefighter clothing, industrial workwear, gloves, body armor, and helmets. Its recent strategy increasingly combines performance with circularity, including industrial-scale recycled-content Twaron and the 2026 commercialization of Twaron Next using circular or bio-based feedstocks. In China, Yantai Tayho Advanced Materials Co.,Ltd. provides both Newstar meta-aramid and Tapanar para-aramid for personal protection and has established dedicated meta-

aramid industrialization capacity for PPE. Competitive differentiation increasingly depends on consistent fiber performance, thermal and mechanical protection, fine-denier capability, solution-dyed products, application engineering, certification support, customer qualification, supply reliability, and sustainability rather than production volume alone.

Report Scope

This report studies the global Aramid Fiber for PPE production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Aramid Fiber for PPE total production and demand, 2021-2032, (Kilotons)

Global Aramid Fiber for PPE total production value, 2021-2032, (USD Million)

Global Aramid Fiber for PPE production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Aramid Fiber for PPE consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Aramid Fiber for PPE domestic production, consumption, key domestic manufacturers and share

Global Aramid Fiber for PPE production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Aramid Fiber for PPE production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Kilotons)

Global Aramid Fiber for PPE production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Aramid Fiber for PPE 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 DuPont, Teijin, Yantai Tayho Advanced Materials Co.,Ltd., Kolon Industries, Hyosung, Toray, Huvis, 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 Aramid Fiber for PPE 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 Aramid Fiber for PPE Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Aramid Fiber for PPE Market, Segmentation by Type:

Para-aramid

Meta-aramid

Global Aramid Fiber for PPE Market, Segmentation by Individual Fiber Linear Density Types:

Fine-Denier Aramid Fiber (<1.5 dtex)

Medium-Denier Aramid Fiber (1.5–2.5 dtex)

Coarse-Denier Aramid Fiber (>2.5 dtex)

Global Aramid Fiber for PPE Market, Segmentation by Fiber Product Form Types:

Continuous Filament and Yarn

Aramid Pulp

Staple and Short-Cut Fiber

Others

Global Aramid Fiber for PPE Market, Segmentation by Application:

Firefighting and Emergency Response PPE (Turnout Gear, Hoods, and Protective Gloves)

Industrial Thermal and Arc-Flash PPE (Workwear, Coveralls, and Electrical Protective Clothing)

Cut-Resistant Hand and Arm Protection (Protective Gloves and Sleeves)

Others

Companies Profiled:

DuPont

Teijin

Yantai Tayho Advanced Materials Co.,Ltd.

Kolon Industries

Hyosung

Toray

Huvis

Key Questions Answered

1. How big is the global Aramid Fiber for PPE market?
2. What is the demand of the global Aramid Fiber for PPE market?
3. What is the year over year growth of the global Aramid Fiber for PPE market?
4. What is the total value of the global Aramid Fiber for PPE market?
5. Who are the Major Players in the global Aramid Fiber for PPE market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Aramid Fiber for PPE Introduction
- 1.2 World Aramid Fiber for PPE Supply & Forecast
 - 1.2.1 World Aramid Fiber for PPE Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Aramid Fiber for PPE Production (2021-2032)
 - 1.2.3 World Aramid Fiber for PPE Pricing Trends (2021-2032)
- 1.3 World Aramid Fiber for PPE Production by Region (Based on Production Site)
 - 1.3.1 World Aramid Fiber for PPE Production Value by Region (2021-2032)
 - 1.3.2 World Aramid Fiber for PPE Production by Region (2021-2032)
 - 1.3.3 World Aramid Fiber for PPE Average Price by Region (2021-2032)
 - 1.3.4 North America Aramid Fiber for PPE Production (2021-2032)
 - 1.3.5 Europe Aramid Fiber for PPE Production (2021-2032)
 - 1.3.6 China Aramid Fiber for PPE Production (2021-2032)
 - 1.3.7 Japan Aramid Fiber for PPE Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Aramid Fiber for PPE Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Aramid Fiber for PPE Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Aramid Fiber for PPE Demand (2021-2032)
- 2.2 World Aramid Fiber for PPE Consumption by Region
 - 2.2.1 World Aramid Fiber for PPE Consumption by Region (2021-2026)
 - 2.2.2 World Aramid Fiber for PPE Consumption Forecast by Region (2027-2032)
- 2.3 United States Aramid Fiber for PPE Consumption (2021-2032)
- 2.4 China Aramid Fiber for PPE Consumption (2021-2032)
- 2.5 Europe Aramid Fiber for PPE Consumption (2021-2032)
- 2.6 Japan Aramid Fiber for PPE Consumption (2021-2032)
- 2.7 South Korea Aramid Fiber for PPE Consumption (2021-2032)
- 2.8 ASEAN Aramid Fiber for PPE Consumption (2021-2032)
- 2.9 India Aramid Fiber for PPE Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Aramid Fiber for PPE Production Value by Manufacturer (2021-2026)

- 3.2 World Aramid Fiber for PPE Production by Manufacturer (2021-2026)
- 3.3 World Aramid Fiber for PPE Average Price by Manufacturer (2021-2026)
- 3.4 Aramid Fiber for PPE Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Aramid Fiber for PPE Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Aramid Fiber for PPE in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Aramid Fiber for PPE in 2025
- 3.6 Aramid Fiber for PPE Market: Overall Company Footprint Analysis
 - 3.6.1 Aramid Fiber for PPE Market: Region Footprint
 - 3.6.2 Aramid Fiber for PPE Market: Company Product Type Footprint
 - 3.6.3 Aramid Fiber for PPE Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Aramid Fiber for PPE Production Value Comparison
 - 4.1.1 United States VS China: Aramid Fiber for PPE Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Aramid Fiber for PPE Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Aramid Fiber for PPE Production Comparison
 - 4.2.1 United States VS China: Aramid Fiber for PPE Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Aramid Fiber for PPE Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Aramid Fiber for PPE Consumption Comparison
 - 4.3.1 United States VS China: Aramid Fiber for PPE Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Aramid Fiber for PPE Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Aramid Fiber for PPE Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Aramid Fiber for PPE Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Aramid Fiber for PPE Production Value (2021-2026)

4.4.3 United States Based Manufacturers Aramid Fiber for PPE Production (2021-2026)

4.5 China Based Aramid Fiber for PPE Manufacturers and Market Share

4.5.1 China Based Aramid Fiber for PPE Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Aramid Fiber for PPE Production Value (2021-2026)

4.5.3 China Based Manufacturers Aramid Fiber for PPE Production (2021-2026)

4.6 Rest of World Based Aramid Fiber for PPE Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Aramid Fiber for PPE Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Aramid Fiber for PPE Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Aramid Fiber for PPE Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Aramid Fiber for PPE Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Para-aramid

5.2.2 Meta-aramid

5.3 Market Segment by Type

5.3.1 World Aramid Fiber for PPE Production by Type (2021-2032)

5.3.2 World Aramid Fiber for PPE Production Value by Type (2021-2032)

5.3.3 World Aramid Fiber for PPE Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY INDIVIDUAL FIBER LINEAR DENSITY TYPES

6.1 World Aramid Fiber for PPE Market Size Overview by Individual Fiber Linear Density Types: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Individual Fiber Linear Density Types

6.2.1 Fine-Denier Aramid Fiber (<1.5 dtex)

6.2.2 Medium-Denier Aramid Fiber (1.5–2.5 dtex)

6.2.3 Coarse-Denier Aramid Fiber (>2.5 dtex)

6.3 Market Segment by Individual Fiber Linear Density Types

6.3.1 World Aramid Fiber for PPE Production by Individual Fiber Linear Density Types

(2021-2032)

6.3.2 World Aramid Fiber for PPE Production Value by Individual Fiber Linear Density Types (2021-2032)

6.3.3 World Aramid Fiber for PPE Average Price by Individual Fiber Linear Density Types (2021-2032)

7 MARKET ANALYSIS BY FIBER PRODUCT FORM TYPES

7.1 World Aramid Fiber for PPE Market Size Overview by Fiber Product Form Types: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Fiber Product Form Types

7.2.1 Continuous Filament and Yarn

7.2.2 Aramid Pulp

7.2.3 Staple and Short-Cut Fiber

7.2.4 Others

7.3 Market Segment by Fiber Product Form Types

7.3.1 World Aramid Fiber for PPE Production by Fiber Product Form Types (2021-2032)

7.3.2 World Aramid Fiber for PPE Production Value by Fiber Product Form Types (2021-2032)

7.3.3 World Aramid Fiber for PPE Average Price by Fiber Product Form Types (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Aramid Fiber for PPE Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Firefighting and Emergency Response PPE (Turnout Gear, Hoods, and Protective Gloves)

8.2.2 Industrial Thermal and Arc-Flash PPE (Workwear, Coveralls, and Electrical Protective Clothing)

8.2.3 Cut-Resistant Hand and Arm Protection (Protective Gloves and Sleeves)

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Aramid Fiber for PPE Production by Application (2021-2032)

8.3.2 World Aramid Fiber for PPE Production Value by Application (2021-2032)

8.3.3 World Aramid Fiber for PPE Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 DuPont

9.1.1 DuPont Details

9.1.2 DuPont Major Business

9.1.3 DuPont Aramid Fiber for PPE Product and Services

9.1.4 DuPont Aramid Fiber for PPE Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 DuPont Recent Developments/Updates

9.1.6 DuPont Competitive Strengths & Weaknesses

9.2 Teijin

9.2.1 Teijin Details

9.2.2 Teijin Major Business

9.2.3 Teijin Aramid Fiber for PPE Product and Services

9.2.4 Teijin Aramid Fiber for PPE Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Teijin Recent Developments/Updates

9.2.6 Teijin Competitive Strengths & Weaknesses

9.3 Yantai Tayho Advanced Materials Co.,Ltd.

9.3.1 Yantai Tayho Advanced Materials Co.,Ltd. Details

9.3.2 Yantai Tayho Advanced Materials Co.,Ltd. Major Business

9.3.3 Yantai Tayho Advanced Materials Co.,Ltd. Aramid Fiber for PPE Product and Services

9.3.4 Yantai Tayho Advanced Materials Co.,Ltd. Aramid Fiber for PPE Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Yantai Tayho Advanced Materials Co.,Ltd. Recent Developments/Updates

9.3.6 Yantai Tayho Advanced Materials Co.,Ltd. Competitive Strengths & Weaknesses

9.4 Kolon Industries

9.4.1 Kolon Industries Details

9.4.2 Kolon Industries Major Business

9.4.3 Kolon Industries Aramid Fiber for PPE Product and Services

9.4.4 Kolon Industries Aramid Fiber for PPE Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Kolon Industries Recent Developments/Updates

9.4.6 Kolon Industries Competitive Strengths & Weaknesses

9.5 Hyosung

9.5.1 Hyosung Details

9.5.2 Hyosung Major Business

9.5.3 Hyosung Aramid Fiber for PPE Product and Services

9.5.4 Hyosung Aramid Fiber for PPE Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Hyosung Recent Developments/Updates

9.5.6 Hyosung Competitive Strengths & Weaknesses

9.6 Toray

9.6.1 Toray Details

9.6.2 Toray Major Business

9.6.3 Toray Aramid Fiber for PPE Product and Services

9.6.4 Toray Aramid Fiber for PPE Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Toray Recent Developments/Updates

9.6.6 Toray Competitive Strengths & Weaknesses

9.7 Huvis

9.7.1 Huvis Details

9.7.2 Huvis Major Business

9.7.3 Huvis Aramid Fiber for PPE Product and Services

9.7.4 Huvis Aramid Fiber for PPE Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Huvis Recent Developments/Updates

9.7.6 Huvis Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Aramid Fiber for PPE Industry Chain

10.2 Aramid Fiber for PPE Upstream Analysis

10.2.1 Aramid Fiber for PPE Core Raw Materials

10.2.2 Main Manufacturers of Aramid Fiber for PPE Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Aramid Fiber for PPE Production Mode

10.6 Aramid Fiber for PPE Procurement Model

10.7 Aramid Fiber for PPE Industry Sales Model and Sales Channels

10.7.1 Aramid Fiber for PPE Sales Model

10.7.2 Aramid Fiber for PPE Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Aramid Fiber for PPE Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Aramid Fiber for PPE Production Value by Region (2021-2026) & (USD Million)

Table 3. World Aramid Fiber for PPE Production Value by Region (2027-2032) & (USD Million)

Table 4. World Aramid Fiber for PPE Production Value Market Share by Region (2021-2026)

Table 5. World Aramid Fiber for PPE Production Value Market Share by Region (2027-2032)

Table 6. World Aramid Fiber for PPE Production by Region (2021-2026) & (Kilotons)

Table 7. World Aramid Fiber for PPE Production by Region (2027-2032) & (Kilotons)

Table 8. World Aramid Fiber for PPE Production Market Share by Region (2021-2026)

Table 9. World Aramid Fiber for PPE Production Market Share by Region (2027-2032)

Table 10. World Aramid Fiber for PPE Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Aramid Fiber for PPE Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Aramid Fiber for PPE Major Market Trends

Table 13. World Aramid Fiber for PPE Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Aramid Fiber for PPE Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Aramid Fiber for PPE Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Aramid Fiber for PPE Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Aramid Fiber for PPE Producers in 2025

Table 18. World Aramid Fiber for PPE Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Aramid Fiber for PPE Producers in 2025

Table 20. World Aramid Fiber for PPE Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Aramid Fiber for PPE Company Evaluation Quadrant

Table 22. World Aramid Fiber for PPE Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Aramid Fiber for PPE Production Site of Key Manufacturer

Table 24. Aramid Fiber for PPE Market: Company Product Type Footprint

Table 25. Aramid Fiber for PPE Market: Company Product Application Footprint

Table 26. Aramid Fiber for PPE Competitive Factors

Table 27. Aramid Fiber for PPE New Entrant and Capacity Expansion Plans

Table 28. Aramid Fiber for PPE Mergers & Acquisitions Activity

Table 29. United States VS China Aramid Fiber for PPE Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Aramid Fiber for PPE Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Aramid Fiber for PPE Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Aramid Fiber for PPE Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Aramid Fiber for PPE Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Aramid Fiber for PPE Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Aramid Fiber for PPE Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Aramid Fiber for PPE Production Market Share (2021-2026)

Table 37. China Based Aramid Fiber for PPE Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Aramid Fiber for PPE Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Aramid Fiber for PPE Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Aramid Fiber for PPE Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Aramid Fiber for PPE Production Market Share (2021-2026)

Table 42. Rest of World Based Aramid Fiber for PPE Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Aramid Fiber for PPE Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Aramid Fiber for PPE Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Aramid Fiber for PPE Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Aramid Fiber for PPE Production Market Share (2021-2026)

Table 47. World Aramid Fiber for PPE Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Aramid Fiber for PPE Production by Type (2021-2026) & (Kilotons)

Table 49. World Aramid Fiber for PPE Production by Type (2027-2032) & (Kilotons)

Table 50. World Aramid Fiber for PPE Production Value by Type (2021-2026) & (USD Million)

Table 51. World Aramid Fiber for PPE Production Value by Type (2027-2032) & (USD Million)

Table 52. World Aramid Fiber for PPE Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Aramid Fiber for PPE Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Aramid Fiber for PPE Production Value by Individual Fiber Linear Density Types, (USD Million), 2021 & 2025 & 2032

Table 55. World Aramid Fiber for PPE Production by Individual Fiber Linear Density Types (2021-2026) & (Kilotons)

Table 56. World Aramid Fiber for PPE Production by Individual Fiber Linear Density Types (2027-2032) & (Kilotons)

Table 57. World Aramid Fiber for PPE Production Value by Individual Fiber Linear Density Types (2021-2026) & (USD Million)

Table 58. World Aramid Fiber for PPE Production Value by Individual Fiber Linear Density Types (2027-2032) & (USD Million)

Table 59. World Aramid Fiber for PPE Average Price by Individual Fiber Linear Density Types (2021-2026) & (US\$/Ton)

Table 60. World Aramid Fiber for PPE Average Price by Individual Fiber Linear Density Types (2027-2032) & (US\$/Ton)

Table 61. World Aramid Fiber for PPE Production Value by Fiber Product Form Types, (USD Million), 2021 & 2025 & 2032

Table 62. World Aramid Fiber for PPE Production by Fiber Product Form Types (2021-2026) & (Kilotons)

Table 63. World Aramid Fiber for PPE Production by Fiber Product Form Types (2027-2032) & (Kilotons)

Table 64. World Aramid Fiber for PPE Production Value by Fiber Product Form Types (2021-2026) & (USD Million)

Table 65. World Aramid Fiber for PPE Production Value by Fiber Product Form Types (2027-2032) & (USD Million)

Table 66. World Aramid Fiber for PPE Average Price by Fiber Product Form Types

(2021-2026) & (US\$/Ton)

Table 67. World Aramid Fiber for PPE Average Price by Fiber Product Form Types (2027-2032) & (US\$/Ton)

Table 68. World Aramid Fiber for PPE Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Aramid Fiber for PPE Production by Application (2021-2026) & (Kilotons)

Table 70. World Aramid Fiber for PPE Production by Application (2027-2032) & (Kilotons)

Table 71. World Aramid Fiber for PPE Production Value by Application (2021-2026) & (USD Million)

Table 72. World Aramid Fiber for PPE Production Value by Application (2027-2032) & (USD Million)

Table 73. World Aramid Fiber for PPE Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Aramid Fiber for PPE Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. DuPont Basic Information, Manufacturing Base and Competitors

Table 76. DuPont Major Business

Table 77. DuPont Aramid Fiber for PPE Product and Services

Table 78. DuPont Aramid Fiber for PPE Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. DuPont Recent Developments/Updates

Table 80. DuPont Competitive Strengths & Weaknesses

Table 81. Teijin Basic Information, Manufacturing Base and Competitors

Table 82. Teijin Major Business

Table 83. Teijin Aramid Fiber for PPE Product and Services

Table 84. Teijin Aramid Fiber for PPE Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Teijin Recent Developments/Updates

Table 86. Teijin Competitive Strengths & Weaknesses

Table 87. Yantai Tayho Advanced Materials Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 88. Yantai Tayho Advanced Materials Co.,Ltd. Major Business

Table 89. Yantai Tayho Advanced Materials Co.,Ltd. Aramid Fiber for PPE Product and Services

Table 90. Yantai Tayho Advanced Materials Co.,Ltd. Aramid Fiber for PPE Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Yantai Tayho Advanced Materials Co.,Ltd. Recent Developments/Updates
Table 92. Yantai Tayho Advanced Materials Co.,Ltd. Competitive Strengths & Weaknesses
Table 93. Kolon Industries Basic Information, Manufacturing Base and Competitors
Table 94. Kolon Industries Major Business
Table 95. Kolon Industries Aramid Fiber for PPE Product and Services
Table 96. Kolon Industries Aramid Fiber for PPE Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Kolon Industries Recent Developments/Updates
Table 98. Kolon Industries Competitive Strengths & Weaknesses
Table 99. Hyosung Basic Information, Manufacturing Base and Competitors
Table 100. Hyosung Major Business
Table 101. Hyosung Aramid Fiber for PPE Product and Services
Table 102. Hyosung Aramid Fiber for PPE Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Hyosung Recent Developments/Updates
Table 104. Hyosung Competitive Strengths & Weaknesses
Table 105. Toray Basic Information, Manufacturing Base and Competitors
Table 106. Toray Major Business
Table 107. Toray Aramid Fiber for PPE Product and Services
Table 108. Toray Aramid Fiber for PPE Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Toray Recent Developments/Updates
Table 110. Toray Competitive Strengths & Weaknesses
Table 111. Huvis Basic Information, Manufacturing Base and Competitors
Table 112. Huvis Major Business
Table 113. Huvis Aramid Fiber for PPE Product and Services
Table 114. Huvis Aramid Fiber for PPE Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Huvis Recent Developments/Updates
Table 116. Huvis Competitive Strengths & Weaknesses
Table 117. Global Key Players of Aramid Fiber for PPE Upstream (Raw Materials)
Table 118. Global Aramid Fiber for PPE Typical Customers
Table 119. Aramid Fiber for PPE Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Aramid Fiber for PPE Picture

Figure 2. World Aramid Fiber for PPE Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Aramid Fiber for PPE Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Aramid Fiber for PPE Production (2021-2032) & (Kilotons)

Figure 5. World Aramid Fiber for PPE Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Aramid Fiber for PPE Production Value Market Share by Region (2021-2032)

Figure 7. World Aramid Fiber for PPE Production Market Share by Region (2021-2032)

Figure 8. North America Aramid Fiber for PPE Production (2021-2032) & (Kilotons)

Figure 9. Europe Aramid Fiber for PPE Production (2021-2032) & (Kilotons)

Figure 10. China Aramid Fiber for PPE Production (2021-2032) & (Kilotons)

Figure 11. Japan Aramid Fiber for PPE Production (2021-2032) & (Kilotons)

Figure 12. Aramid Fiber for PPE Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Aramid Fiber for PPE Consumption (2021-2032) & (Kilotons)

Figure 15. World Aramid Fiber for PPE Consumption Market Share by Region (2021-2032)

Figure 16. United States Aramid Fiber for PPE Consumption (2021-2032) & (Kilotons)

Figure 17. China Aramid Fiber for PPE Consumption (2021-2032) & (Kilotons)

Figure 18. Europe Aramid Fiber for PPE Consumption (2021-2032) & (Kilotons)

Figure 19. Japan Aramid Fiber for PPE Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Aramid Fiber for PPE Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Aramid Fiber for PPE Consumption (2021-2032) & (Kilotons)

Figure 22. India Aramid Fiber for PPE Consumption (2021-2032) & (Kilotons)

Figure 23. Producer Shipments of Aramid Fiber for PPE by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Aramid Fiber for PPE Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Aramid Fiber for PPE Markets in 2025

Figure 26. United States VS China: Aramid Fiber for PPE Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Aramid Fiber for PPE Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Aramid Fiber for PPE Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Aramid Fiber for PPE Production Market Share 2025

Figure 30. China Based Manufacturers Aramid Fiber for PPE Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Aramid Fiber for PPE Production Market Share 2025

Figure 32. World Aramid Fiber for PPE Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Aramid Fiber for PPE Production Value Market Share by Type in 2025

Figure 34. Para-aramid

Figure 35. Meta-aramid

Figure 36. World Aramid Fiber for PPE Production Market Share by Type (2021-2032)

Figure 37. World Aramid Fiber for PPE Production Value Market Share by Type (2021-2032)

Figure 38. World Aramid Fiber for PPE Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World Aramid Fiber for PPE Production Value by Individual Fiber Linear Density Types, (USD Million), 2021 & 2025 & 2032

Figure 40. World Aramid Fiber for PPE Production Value Market Share by Individual Fiber Linear Density Types in 2025

Figure 41. Fine-Denier Aramid Fiber (<1.5 dtex)

Figure 42. Medium-Denier Aramid Fiber (1.5–2.5 dtex)

Figure 43. Coarse-Denier Aramid Fiber (>2.5 dtex)

Figure 44. World Aramid Fiber for PPE Production Market Share by Individual Fiber Linear Density Types (2021-2032)

Figure 45. World Aramid Fiber for PPE Production Value Market Share by Individual Fiber Linear Density Types (2021-2032)

Figure 46. World Aramid Fiber for PPE Average Price by Individual Fiber Linear Density Types (2021-2032) & (US\$/Ton)

Figure 47. World Aramid Fiber for PPE Production Value by Fiber Product Form Types, (USD Million), 2021 & 2025 & 2032

Figure 48. World Aramid Fiber for PPE Production Value Market Share by Fiber Product Form Types in 2025

Figure 49. Continuous Filament and Yarn

Figure 50. Aramid Pulp

Figure 51. Staple and Short-Cut Fiber

Figure 52. Others

Figure 53. World Aramid Fiber for PPE Production Market Share by Fiber Product Form Types (2021-2032)

Figure 54. World Aramid Fiber for PPE Production Value Market Share by Fiber Product Form Types (2021-2032)

Figure 55. World Aramid Fiber for PPE Average Price by Fiber Product Form Types (2021-2032) & (US\$/Ton)

Figure 56. World Aramid Fiber for PPE Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Aramid Fiber for PPE Production Value Market Share by Application in 2025

Figure 58. Firefighting and Emergency Response PPE (Turnout Gear, Hoods, and Protective Gloves)

Figure 59. Industrial Thermal and Arc-Flash PPE (Workwear, Coveralls, and Electrical Protective Clothing)

Figure 60. Cut-Resistant Hand and Arm Protection (Protective Gloves and Sleeves)

Figure 61. Others

Figure 62. World Aramid Fiber for PPE Production Market Share by Application (2021-2032)

Figure 63. World Aramid Fiber for PPE Production Value Market Share by Application (2021-2032)

Figure 64. World Aramid Fiber for PPE Average Price by Application (2021-2032) & (US\$/Ton)

Figure 65. Aramid Fiber for PPE Industry Chain

Figure 66. Aramid Fiber for PPE Procurement Model

Figure 67. Aramid Fiber for PPE Sales Model

Figure 68. Aramid Fiber for PPE Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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