

## Aramid Fibers (Para and Meta) – A Global Market Overview

*“Aramid fiber product types analyzed in this study include Para-Aramid fibers and Meta-Aramid fibers. With a slight overlapping for these two product segments, end-use application areas of aramid fibers analyzed include for Para-Aramid Fibers – Safety & Protection, Frictional Materials, Optical Fiber Cables, Tire Reinforcements, Rubber Reinforcements and other applications; and Meta-Aramid Fibers – Electrical Insulation, Safety & Protection, Filtration, Rubber Reinforcements and other applications.”*

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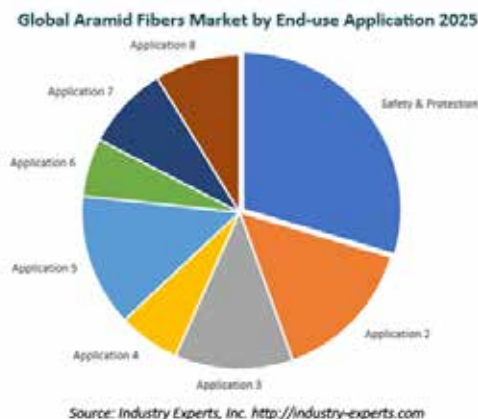
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### Report Synopsis

Aramid fiber, composed of aromatic polyamides, has been a key material for use in various applications due to its diversified characteristics including high strength, impact resistance, low density, good chemical resistance, high heat resistance and abrasion resistance. Safety & protection, electrical insulation, filtration, frictional materials, optical fiber cables, rubber and tire reinforcements are among the current applications in which aramid fibers have been mostly utilized.

Safety & Protection constitutes the largest end-use application for aramid fibers accounting for a share of over 30.7%, translated into 29.7 thousand metric tons in 2018. Further, the consumption of aramid fibers in Safety & Protection applications is projected to record a CAGR of 7% during 2019-2025, reaching 47.6 thousand metric tons by 2025.



### Research Findings & Coverage

- The global report on Aramid Fibers analyzes the global market with respect to product types and end-use applications
- Aramid Fibers market size is estimated in this report by product type and application across all major countries

- Safety and Protection Markets Provide Lucrative Prospects for the Aramid Fibers Industry
- Optical Fiber Cables Industry Driving Rapid Demand for Para-Aramid Fibers
- Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments
- Major companies profiled – 22
- The industry guide includes the contact details for 83 companies

### Product Outline

The report analyzes the market for the following key product types of Aramid Fibers:

- Para-aramid
- Meta-aramid

The market for end-use applications of Aramid Fibers explored in this report includes the following:

- Safety & Protection
- Frictional Materials
- Electrical Insulation
- Filtration
- Optical Fiber Cables
- Tire Reinforcements
- Rubber Reinforcements
- Other Applications

### Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global Aramid Fibers market for the period 2016-2025 in terms of both volumes in metric tons and market value in US\$ and the compound annual growth rates (CAGRs) projected from 2019 through 2025

### Geographic Coverage

- **North America** (The United States and Canada)
- **Europe** (France, Germany, Italy, Spain, The Netherlands, Russia, The United Kingdom and other countries)
- **Asia-Pacific** (China, Japan, India, South Korea and Rest of Asia-Pacific)
- **Rest of World**

## SAMPLE COMPANY PROFILE

### EI DU PONT DE NEMOURS & CO.

1007 Market Street, Wilmington, DE 19898, United States  
Phone: 1-302-774-1000, Fax: 1-302-774-7321  
Website: www.dupont.com

### Business Overview

Established in 1802, Wilmington, Delaware-based El DuPont De Nemours & Co. (DuPont) is a global leading science and technology based company engaged in the production and supply of wide range of products ranging from agricultural products to synthetic fibers, specialty chemicals to high performance materials and electronic materials. DuPont is part of newly formed DowDuPont. DowDuPont is a holding company comprised of The Dow Chemical Company and DuPont with the intent to form independent, publicly traded companies in agriculture, materials science and specialty products sectors.

DuPont Protection Solutions (to be named as DuPont Safety & Construction), a business unit of DowDuPont Specialty Products Division, is engaged in the production and supply of products and solutions that protect people, structures and the environment. DuPont is the inventor and the first producer of aramid fibers globally. The Company introduced Kevlar® para-aramid fiber in 1965 and Nomex® meta-aramid fiber in 1967. DuPont operates three para-aramid plants located in Richmond, VA, USA, Maydown, Northern Ireland, UK; and Tokai City, Japan (joint venture with Toray, Japan). The Company's meta-aramid fiber plants are located in Richmond, VA, USA; and Asturias, Spain.

### Product Portfolio

Aramid Products	Applications
Kevlar® Para-Aramid Fiber	Used in adhesive, sealant, coating, and fiber-reinforced plastic applications; used in aerospace, marine, and rail industries; automotive components reinforcements; automotive hoses & belts reinforcements; consumer products; fiber optic cables; fire-resistant mattresses; firefighter gear & turnout gear; honeycomb composites in aerospace & marine industries; industrial protective clothing; stronger brake pads, clutches & gaskets; marine, energy, and maritime vessel composites; military body armors; military helmets; used in personal electronics, including cellular phones, handheld devices, notebook computers; ropes & cables; sporting goods apparel & accessories; strength-members for oil and gas industry; tactical vests for law enforcement; tires & rubber goods; and vehicle armor – MRAP vehicles
Nomex® Meta-Aramid Fiber	Used in aerospace, marine, and rail industries; automotive components reinforcements; electrical insulation; fire protection; firefighter gear & turnout gear; for high temperature automotive applications, including heat shields & insulation shields and other under-the-hood applications; honeycomb composites in aerospace & marine industries; for use in high temperature hot gas filtration applications; industrial safety / industrial protective clothing; military thermal protection; and racing protection

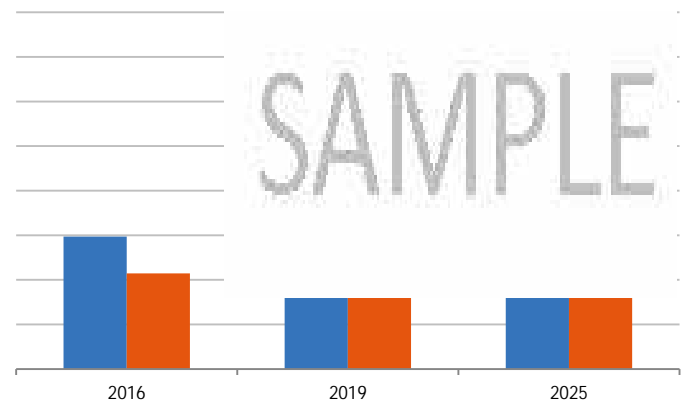
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## SAMPLE TABLE/CHART

Glance at 2019 Global Aramid Fiber Volume Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific and Rest of World



Asia-Pacific Aramid Fiber Market Analysis (2016-2025) by Product Type – Para-Aramid and Meta-Aramid in Metric Tons



## KEY PLAYERS PROFILED

- Alchemie Group
- China Bluestar Chengrand Co., Ltd.
- China Sinopec Yizheng Chemical Fibre Company Limited
- Du Pont-Toray Co., Ltd
- DuPont Asturias, S.L.
- DuPont UK Ltd
- El Du Pont De Nemours & Co.
- Guangdong Charming Co., Ltd.
- Hebei Silicon Valley Chemical Co., Ltd.
- Huvis Corporation
- Hyosung Advanced Materials Corporation
- JSC Kamenskvolokno
- Kermel
- Kolon Industries, Inc.
- Shenma Industrial Co., Ltd.
- Suzhou Zhaoda Special Fiber Technical Co., Ltd.
- Taekwang Industrial Co., Ltd.
- Teijin Aramid BV
- Teijin Limited
- Toray Chemical Korea Inc.
- X-FIPER New Material Co., Ltd.
- Yantai Tayho Advanced Materials Co., Ltd.

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**Industry Experts, Inc.**  
 14726 Ramona Ave, Suite S2  
 Chino, CA 91710  
 Greater Los Angeles  
 United States  
 Phone: +1-320-iXPERTS (497-3787)

Email: [info@industry-experts.com](mailto:info@industry-experts.com)

**India Office**  
 1-7-19/C, Street No. 8, Habsiguda  
 Hyderabad – 500007  
 India  
 Phone: +91-40-4018-1314  
 Fax: +91-40-2715-7746

Website: <http://industry-experts.com>