

Fire-Resistant Fabrics Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Treated and Inherent), By Application (Apparel and Non-Apparel), By End Use (Industrial, Transport, Defense, Others), By Region and Competition

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Abstracts

Fire-Resistant Fabrics market is anticipated to grow significantly through 2028 due to use of this fabric in industries like chemical, oil and gas , construction etc.

Fabric that is flame resistant and retardant is used in the production of furniture, clothing, protective gear, and other items for use in a variety of industrial fields, including the chemical, defence, mining, infrastructure & construction, and oil & gas industries. The need for flame-resistant and retardant fabric has been fueled by strict industrial safety rules that uphold workplace safety and control worker protection standards. The NFPA 2112 standard was created by the National Fire Protection Association (NFPA), and it specifies the minimum standards for the design, development, testing, and certification of the flame-resistant and retardant fabric used by professionals in the industry. In addition, these standard states that the flame-resistant and retardant fabric shall not contribute to the wearer's burn injuries, offer high levels of protection and lessen the severity of burn injuries brought on by brief thermal exposure or unintentional exposure to flash fires. Such factors are supposed to increase market growth during the long-run forecast period.

Moreover, demand from the oil & gas and transportation sectors will likely provide market growth opportunities during the forecast period.

Rising Demand from The Automobile Industry

Fire-resistant fabrics are used in vehicles to stop the spread of fire caused by dangerous materials like batteries and flammable chemicals. In addition, the market for fire-resistant fabrics is growing as high-speed, electric vehicles with quick acceleration and regulatory bodies demand higher safety standards in cars. Consumers' desire for technologically advanced cars has changed recently, necessitating inexpensive, low-maintenance vehicles with various interior applications and safety features. As a result, there are now more fabrics used in cars overall.

Additionally, the Organization Internationale des Constructeurs d'Automobiles (OICA) estimates that the number of automobiles sold worldwide grew by 90423687 units in 2019. As a result, the increased demand for automobiles brought on by their enhanced features is anticipated to open up a wide range of potential for market growth. Additionally, the global demand for and sale of electric cars propel this expansion. According to the International Energy Agency, 3.29 million EVs were deployed worldwide in 2018, which is expected to rise to 125 million by 2030. Thus, all these factors will drive the market in the forecast period.

Stringent Workplace Safety Regulations

Another significant element influencing market growth is the strict workplace safety laws in many countries. Industrial safety gear for places that deal with chemicals, construction, and oil & gas is the principal use for fire-resistant fabrics. Due to the hazardous working conditions, businesses must utilize such materials. Due to these considerations, the demand for textiles that resist fire has greatly increased as emerging countries require safety gear in the industrial sector.

Emerging Turns Toward Nanotechnology Based Fabrics

In industrial and technical applications, textured-surfaced fabrics that are flame-resistant are becoming more and more necessary. A team of researchers at the Defense Institute of Advanced Technology (DIAT) saw the need and created a nano-engineered polymer-based fabric specifically for the space industry and military personnel. This fabric was created by DIAT and has excellent flame resistance, hypersaline solution resistance, UV resistance, and low-temperature resistance. When subjected to chemical assaults and low and high temperatures, this nano-engineered polymer fabric displays exceptional integrity. This fabric may be utilized successfully in other security services, such as the navy and the air force, in addition to space exploration and military use.

Therefore, the worldwide fire-resistant fabrics market is expected to grow throughout the forecast period.

Recent Developments

In August 2021, As a component of the organization's obligation to create items that satisfy the most eminent defensive guidelines, Carrington Textiles has been conceded RU status for six of its fire-resistant textures in the classification of 'fire safe dress for the security of modern staff against brief term warm openings from fire.'

Teijin Aramid, a leading manufacturer of high-quality aramids and a member of the Teijin Group, is trying to develop superior execution aramid strands from bio-based, sustainable ingredients in November 2020.

In April 2020, For the workers in the medical services industry, DuPont launched a program called TyvekTogether in which they provided a new specific Tyvek texture.

Lenzing AG increased its geographic reach in January 2019 by opening a Center of Excellence at one of its locations in Indonesia. The Lenzing Center of Excellence also provides laboratory and analytical facilities to conduct trials and analyses of various types of fibers and yarns to improve product quality further.

Market Segmentation

Global Fire-Resistant Fabrics Market is segmented based on type, application, end-use, and region. Based on the type, the market is categorized into treated and inherent. Based on application, the market is fabricated into apparel and non-apparel. Based on end use, the market is segmented into industrial, transport, defense, and others. Based on region, the market is divided into North America, Europe, Asia Pacific, South America, Middle East & Africa, By Company.

Market Players

DuPont de Nemours Inc, Autoliv Inc., Daletec AS, Solvay SA, Koninklijke Ten Cate B.V., Huntsman International LLC, W. L. Gore & Associates, Inc., Westex Inc, PBI Performance Products Inc, Lenzing AG are some of the key players of the Global Fire-

Resistant Fabrics Market.

Report Scope:

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

Fire-Resistant Fabrics Market, By Type:

Treated

Inherent

Fire-Resistant Fabrics Market, By Application:

Apparel

Non-Apparel

Fire-Resistant Fabrics Market, By End Use:

Industrial

Transport

Defense

Others

Fire-Resistant Fabrics Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Italy

Spain

Netherlands

Asia-Pacific

China

India

South Korea

Japan

Australia

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Iran

Turkey

Competitive landscape

Company Profiles: Detailed analysis of the major companies in the global fire-resistant fabrics 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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