

Global Protective Fabrics Market Report and Forecast 2024-2032

Market Report | 2024-05-01 | 164 pages | EMR Inc.

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Report description:

Global Protective Fabrics Market Report and Forecast 2024-2032

Market Outlook

According to the report by Expert Market Research (EMR), the global protective fabrics market size reached a value of USD 5.01 billion in 2023. Aided by the increasing awareness of workplace safety, stringent regulatory standards, and advancements in textile technology, the market is projected to further grow at a CAGR of 6.9% between 2024 and 2032 to reach a value of USD 9.20 billion by 2032.

Protective fabrics refer to specialised textiles designed and engineered to provide protection against various hazards, including physical, chemical, biological, thermal, and environmental risks. These fabrics are utilised in a wide range of applications across industries such as manufacturing, construction, healthcare, military and defence, oil and gas, firefighting, and sports and outdoor activities.

Several factors underpin the protective fabrics market growth, driving demand for specialised fabrics and textile solutions tailored to the needs of end-users across diverse sectors. Firstly, stringent occupational safety regulations and mandates enacted by governments and regulatory bodies worldwide compel employers to ensure the safety and well-being of workers in hazardous environments. This necessitates the adoption of protective clothing, including flame-resistant (FR) garments, chemical-resistant apparel, high-visibility clothing, and cut-resistant fabrics, among others, to mitigate risks of workplace accidents and injuries.

As per the protective fabrics market analysis, increasing emphasis on worker comfort, mobility, and ergonomics drives demand for lightweight, breathable, and moisture-wicking protective fabrics that offer superior comfort and performance in demanding work environments. Innovations in textile engineering and material science enable the development of advanced fabrics with enhanced properties such as flame resistance, abrasion resistance, antimicrobial protection, and electrical conductivity, meeting the evolving needs of modern workers across industries.

Additionally, rising awareness of personal health and safety, fuelled by incidents of industrial accidents, environmental hazards, and infectious diseases, spurs demand for protective fabrics in healthcare, medical, and hygiene applications and propels the protective fabrics market expansion. Medical-grade fabrics such as surgical gowns, drapes, masks, and bedding materials play a crucial role in infection control, patient care, and disease prevention, driving market growth in the healthcare sector.

With growing concerns about infectious diseases and hygiene, there is a rising demand for protective fabrics embedded with

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antimicrobial properties. As per the protective fabrics market outlook, antimicrobial textiles inhibit the growth of bacteria, viruses, and fungi, reducing the risk of contamination and infection transmission. Applications include healthcare garments, medical linens, protective masks, and hygiene products, where antimicrobial fabrics contribute to infection control, patient safety, and public health.

The market presents diverse opportunities for innovation, expansion, and differentiation, driven by emerging trends and evolving customer requirements. One such opportunity lies in the adoption of sustainable and eco-friendly materials and manufacturing processes, aligning with global sustainability goals and environmental stewardship initiatives. Companies in protective fabrics market that invest in sustainable sourcing, recycling, and circular economy principles can differentiate their offerings, reduce their environmental footprint, and appeal to environmentally conscious consumers and businesses.

Furthermore, the integration of smart textiles and wearable technology into protective fabrics opens new avenues for value creation and market differentiation. Smart protective garments embedded with sensors, monitoring devices, and communication modules enable real-time tracking of vital signs, environmental conditions, and worker movements, enhancing safety, productivity, and situational awareness in industrial and hazardous environments. By embracing the Internet of Things (IoT) and digitalisation trends, companies can develop innovative solutions that meet the evolving needs of end-users and provide actionable insights for risk management and decision-making, which can boost the overall protective fabrics market share.

Market Segmentation □

The market can be divided based on raw material, type, end use, and region.

Market Breakup by Raw Material

- Aramid
- PBI
- Polyester
- Cotton Fibre
- Polyolefin
- Polyamide
- Others

Market Breakup by Type

- Fire And Heat-Resistant Fabric
- Chemical Resistant Fabric
- UV Resistant Fabric

Market Breakup by End Use

- Building and Construction
- Oil and Gas
- Firefighting
- Healthcare
- Law Enforcement and Military
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global protective fabrics market. Some of the major players explored in the report by Expert Market Research are as follows:

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- Honeywell International Inc.
- DuPont de Nemours Inc
- 3M Company
- Teijin Limited
- Koninklijke Ten Cate N.V. (TenCate Protective Fabrics)
- Kolon Industries, Inc.
- Cerex Advanced Fabrics, Inc.
- Beijing Bangwei PUTAI protection Textile Co.
- Glen Raven, Inc.
- Tex Tech Industries Inc.
- Klopman International S.r.l.
- Others

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*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

Table of Contents:

- 1 Preface
- 2 Report Coverage - Key Segmentation and Scope
- 3 Report Description
 - 3.1 Market Definition and Outlook
 - 3.2 Properties and Applications
 - 3.3 Market Analysis
 - 3.4 Key Players
- 4 Key Assumptions
- 5 Executive Summary
 - 5.1 Overview
 - 5.2 Key Drivers
 - 5.3 Key Developments
 - 5.4 Competitive Structure
 - 5.5 Key Industrial Trends
- 6 Market Snapshot
 - 6.1 Global
 - 6.2 Regional
- 7 Opportunities and Challenges in the Market
- 8 Global Protective Fabrics Market Analysis
 - 8.1 Key Industry Highlights
 - 8.2 Global Protective Fabrics Historical Market (2018-2023)
 - 8.3 Global Protective Fabrics Market Forecast (2024-2032)

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8.4 Global Protective Fabrics Market by Raw Material

8.4.1 Aramid

8.4.1.1 Historical Trend (2018-2023)

8.4.1.2 Forecast Trend (2024-2032)

8.4.2 PBI

8.4.2.1 Historical Trend (2018-2023)

8.4.2.2 Forecast Trend (2024-2032)

8.4.3 Polyester

8.4.3.1 Historical Trend (2018-2023)

8.4.3.2 Forecast Trend (2024-2032)

8.4.4 Cotton Fibre

8.4.4.1 Historical Trend (2018-2023)

8.4.4.2 Forecast Trend (2024-2032)

8.4.5 Polyolefin

8.4.5.1 Historical Trend (2018-2023)

8.4.5.2 Forecast Trend (2024-2032)

8.4.6 Polyamide

8.4.6.1 Historical Trend (2018-2023)

8.4.6.2 Forecast Trend (2024-2032)

8.4.7 Others

8.5 Global Protective Fabrics Market by Type

8.5.1 Fire And Heat-Resistant Fabric

8.5.1.1 Historical Trend (2018-2023)

8.5.1.2 Forecast Trend (2024-2032)

8.5.2 Chemical Resistant Fabric

8.5.2.1 Historical Trend (2018-2023)

8.5.2.2 Forecast Trend (2024-2032)

8.5.3 UV Resistant Fabric

8.5.3.1 Historical Trend (2018-2023)

8.5.3.2 Forecast Trend (2024-2032)

8.6 Global Protective Fabrics Market by End Use

8.6.1 Building and Construction

8.6.1.1 Historical Trend (2018-2023)

8.6.1.2 Forecast Trend (2024-2032)

8.6.2 Oil and Gas

8.6.2.1 Historical Trend (2018-2023)

8.6.2.2 Forecast Trend (2024-2032)

8.6.3 Firefighting

8.6.3.1 Historical Trend (2018-2023)

8.6.3.2 Forecast Trend (2024-2032)

8.6.4 Healthcare

8.6.4.1 Historical Trend (2018-2023)

8.6.4.2 Forecast Trend (2024-2032)

8.6.5 Law Enforcement and Military

8.6.5.1 Historical Trend (2018-2023)

8.6.5.2 Forecast Trend (2024-2032)

8.6.6 Others

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- 8.7 Global Protective Fabrics Market by Region
 - 8.7.1 North America
 - 8.7.1.1 Historical Trend (2018-2023)
 - 8.7.1.2 Forecast Trend (2024-2032)
 - 8.7.2 Europe
 - 8.7.2.1 Historical Trend (2018-2023)
 - 8.7.2.2 Forecast Trend (2024-2032)
 - 8.7.3 Asia Pacific
 - 8.7.3.1 Historical Trend (2018-2023)
 - 8.7.3.2 Forecast Trend (2024-2032)
 - 8.7.4 Latin America
 - 8.7.4.1 Historical Trend (2018-2023)
 - 8.7.4.2 Forecast Trend (2024-2032)
 - 8.7.5 Middle East and Africa
 - 8.7.5.1 Historical Trend (2018-2023)
 - 8.7.5.2 Forecast Trend (2024-2032)
- 9 North America Protective Fabrics Market Analysis
 - 9.1 United States of America
 - 9.1.1 Historical Trend (2018-2023)
 - 9.1.2 Forecast Trend (2024-2032)
 - 9.2 Canada
 - 9.2.1 Historical Trend (2018-2023)
 - 9.2.2 Forecast Trend (2024-2032)
- 10 Europe Protective Fabrics Market Analysis
 - 10.1 United Kingdom
 - 10.1.1 Historical Trend (2018-2023)
 - 10.1.2 Forecast Trend (2024-2032)
 - 10.2 Germany
 - 10.2.1 Historical Trend (2018-2023)
 - 10.2.2 Forecast Trend (2024-2032)
 - 10.3 France
 - 10.3.1 Historical Trend (2018-2023)
 - 10.3.2 Forecast Trend (2024-2032)
 - 10.4 Italy
 - 10.4.1 Historical Trend (2018-2023)
 - 10.4.2 Forecast Trend (2024-2032)
 - 10.5 Others
- 11 Asia Pacific Protective Fabrics Market Analysis
 - 11.1 China
 - 11.1.1 Historical Trend (2018-2023)
 - 11.1.2 Forecast Trend (2024-2032)
 - 11.2 Japan
 - 11.2.1 Historical Trend (2018-2023)
 - 11.2.2 Forecast Trend (2024-2032)
 - 11.3 India
 - 11.3.1 Historical Trend (2018-2023)
 - 11.3.2 Forecast Trend (2024-2032)

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- 11.4 ASEAN
 - 11.4.1 Historical Trend (2018-2023)
 - 11.4.2 Forecast Trend (2024-2032)
- 11.5 Australia
 - 11.5.1 Historical Trend (2018-2023)
 - 11.5.2 Forecast Trend (2024-2032)
- 11.6 Others
- 12 Latin America Protective Fabrics Market Analysis
 - 12.1 Brazil
 - 12.1.1 Historical Trend (2018-2023)
 - 12.1.2 Forecast Trend (2024-2032)
 - 12.2 Argentina
 - 12.2.1 Historical Trend (2018-2023)
 - 12.2.2 Forecast Trend (2024-2032)
 - 12.3 Mexico
 - 12.3.1 Historical Trend (2018-2023)
 - 12.3.2 Forecast Trend (2024-2032)
 - 12.4 Others
- 13 Middle East and Africa Protective Fabrics Market Analysis
 - 13.1 Saudi Arabia
 - 13.1.1 Historical Trend (2018-2023)
 - 13.1.2 Forecast Trend (2024-2032)
 - 13.2 United Arab Emirates
 - 13.2.1 Historical Trend (2018-2023)
 - 13.2.2 Forecast Trend (2024-2032)
 - 13.3 Nigeria
 - 13.3.1 Historical Trend (2018-2023)
 - 13.3.2 Forecast Trend (2024-2032)
 - 13.4 South Africa
 - 13.4.1 Historical Trend (2018-2023)
 - 13.4.2 Forecast Trend (2024-2032)
 - 13.5 Others
- 14 Market Dynamics
 - 14.1 SWOT Analysis
 - 14.1.1 Strengths
 - 14.1.2 Weaknesses
 - 14.1.3 Opportunities
 - 14.1.4 Threats
 - 14.2 Porter's Five Forces Analysis
 - 14.2.1 Supplier's Power
 - 14.2.2 Buyer's Power
 - 14.2.3 Threat of New Entrants
 - 14.2.4 Degree of Rivalry
 - 14.2.5 Threat of Substitutes
 - 14.3 Key Indicators for Demand
 - 14.4 Key Indicators for Price
- 15 Competitive Landscape

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- 15.1 Market Structure
- 15.2 Company Profiles
 - 15.2.1 Honeywell International Inc.
 - 15.2.1.1 Company Overview
 - 15.2.1.2 Product Portfolio
 - 15.2.1.3 Demographic Reach and Achievements
 - 15.2.1.4 Certifications
 - 15.2.2 DuPont de Nemours Inc.
 - 15.2.2.1 Company Overview
 - 15.2.2.2 Product Portfolio
 - 15.2.2.3 Demographic Reach and Achievements
 - 15.2.2.4 Certifications
 - 15.2.3 3M Company
 - 15.2.3.1 Company Overview
 - 15.2.3.2 Product Portfolio
 - 15.2.3.3 Demographic Reach and Achievements
 - 15.2.3.4 Certifications
 - 15.2.4 Teijin Limited
 - 15.2.4.1 Company Overview
 - 15.2.4.2 Product Portfolio
 - 15.2.4.3 Demographic Reach and Achievements
 - 15.2.4.4 Certifications
 - 15.2.5 Koninklijke Ten Cate N.V. (TenCate Protective Fabrics)
 - 15.2.5.1 Company Overview
 - 15.2.5.2 Product Portfolio
 - 15.2.5.3 Demographic Reach and Achievements
 - 15.2.5.4 Certifications
 - 15.2.6 Kolon Industries, Inc.
 - 15.2.6.1 Company Overview
 - 15.2.6.2 Product Portfolio
 - 15.2.6.3 Demographic Reach and Achievements
 - 15.2.6.4 Certifications
 - 15.2.7 Cerex Advanced Fabrics, Inc.
 - 15.2.7.1 Company Overview
 - 15.2.7.2 Product Portfolio
 - 15.2.7.3 Demographic Reach and Achievements
 - 15.2.7.4 Certifications
 - 15.2.8 Beijing Bangwei PUTAI protection Textile Co.
 - 15.2.8.1 Company Overview
 - 15.2.8.2 Product Portfolio
 - 15.2.8.3 Demographic Reach and Achievements
 - 15.2.8.4 Certifications
 - 15.2.9 Glen Raven, Inc.
 - 15.2.9.1 Company Overview
 - 15.2.9.2 Product Portfolio
 - 15.2.9.3 Demographic Reach and Achievements
 - 15.2.9.4 Certifications

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- 15.2.10 Tex Tech Industries Inc.
 - 15.2.10.1 Company Overview
 - 15.2.10.2 Product Portfolio
 - 15.2.10.3 Demographic Reach and Achievements
 - 15.2.10.4 Certifications
- 15.2.11 Klopman International S.r.l.
 - 15.2.11.1 Company Overview
 - 15.2.11.2 Product Portfolio
 - 15.2.11.3 Demographic Reach and Achievements
 - 15.2.11.4 Certifications
- 15.2.12 Other
- 16 Key Trends and Developments in the Market

List of Key Figures and Tables

1. Global Protective Fabrics Market: Key Industry Highlights, 2018 and 2032
2. Global Protective Fabrics Historical Market: Breakup by Raw Material (USD Billion), 2018-2023
3. Global Protective Fabrics Market Forecast: Breakup by Raw Material (USD Billion), 2024-2032
4. Global Protective Fabrics Historical Market: Breakup by Type (USD Billion), 2018-2023
5. Global Protective Fabrics Market Forecast: Breakup by Type (USD Billion), 2024-2032
6. Global Protective Fabrics Historical Market: Breakup by End Use (USD Billion), 2018-2023
7. Global Protective Fabrics Market Forecast: Breakup by End Use (USD Billion), 2024-2032
8. Global Protective Fabrics Historical Market: Breakup by Region (USD Billion), 2018-2023
9. Global Protective Fabrics Market Forecast: Breakup by Region (USD Billion), 2024-2032
10. North Protective Fabrics Market Historical Market: Breakup by Country (USD Billion), 2018-2023
11. North America Protective Fabrics Market Forecast: Breakup by Country (USD Billion), 2024-2032
12. Europe Protective Fabrics Market Historical Market: Breakup by Country (USD Billion), 2018-2023
13. Europe Protective Fabrics Market Forecast: Breakup by Country (USD Billion), 2024-2032
14. Asia Pacific Protective Fabrics Market Historical Market: Breakup by Country (USD Billion), 2018-2023
15. Asia Pacific Protective Fabrics Market Forecast: Breakup by Country (USD Billion), 2024-2032
16. Latin America Protective Fabrics Market Historical Market: Breakup by Country (USD Billion), 2018-2023
17. Latin America Protective Fabrics Market Forecast: Breakup by Country (USD Billion), 2024-2032
18. Middle East and Africa Protective Fabrics Market Historical Market: Breakup by Country (USD Billion), 2018-2023
19. Middle East and Africa Protective Fabrics Market Forecast: Breakup by Country (USD Billion), 2024-2032
20. Global Protective Fabrics Market Structure

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