

Middle East & Africa 3D Woven Fabrics Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Solid, Hollow, Shell, and Nodal), Fiber Type (Carbon Fiber, Glass Fiber, and Others), and Application (Ballistics, Aircraft, Transportation, Building and Construction, and Others)

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Abstracts

The Middle East & Africa 3D woven fabrics market is expected to grow from US\$ 2.36 million in 2022 to US\$ 4.53 million by 2028. It is estimated to grow at a CAGR of 11.4% from 2022 to 2028.

Applications of 3D Woven Fabrics in Sporting Goods Applications Fuels Middle East & Africa 3D Woven Fabrics Market

Natural/synthetic fiber-based hybrid composites are developed by combining two or more reinforcements in a common matrix. Hybrid materials are gaining popularity and are the fastest-growing classes of novel natural fiber composite material fiber type. Hybridization of two fibers in a single matrix provides various material properties of both natural and synthetic fibers, such as renewability, sustainability, and superior mechanical and thermal properties. Growing environmental impact associated with production such as, non-biodegradability and recycling issues of synthetic fiber composites has encouraged manufacturers to develop eco-friendly composites using natural fibers for various applications, including aircraft, marine, construction, and sporting goods.

Manufacturers and researchers are focused on the development of polymer hybrid composites that are reinforced with various combinations of nano carbon fibers and

natural fibers to increase the applications in the field of engineering and fiber type.

Recycled Carbon Fiber Natural Fibers and Polypropylene (rCF NFPP) is a composite material consisting of 40% natural fibers, 50% polypropylene, and 10% recycled carbon fibers. The combination of natural and recycled carbon fibers results in a weight reduction that reduces the greenhouse potential by up to 50%. Thus, research and development of natural/synthetic fiber-based hybrid composites allow manufacturers and end-users to design the material properties according to the requirements.

Middle East & Africa 3D Woven Fabrics Market Overview

The 3D woven fabrics market in the Middle East & Africa is segmented into Gulf Cooperation Council, South Africa, and the Rest of Middle East & Africa. 3D woven fabrics are utilized in manufacturing of textile composites that have applications in aerospace and building & construction industries. The applications in the building & construction industry include thermal, noise insulation, roofing, and tiling. The demand for advanced textile composites in the Middle East & Africa is expected to increase significantly due to the continuous investment in expansion and R&D activities in the aerospace industry by prominent players in the region. In 2022, SAMI Composites LLC partnered with The Lockheed Martin Corporation for the development of Composites Manufacturing Center of Excellence in Riyadh with the support of the General Authority for Military Industries (GAMI) to boost Saudi Arabia's aerospace manufacturing capabilities.

Middle East & Africa 3D Woven Fabrics Market Revenue and Forecast to 2028 (US\$ Million)

Middle East & Africa 3D Woven Fabrics Market Segmentation

The Middle East & Africa 3D woven fabrics market is segmented into type, fiber type, application, and country.

Based on type, the Middle East & Africa 3D woven fabrics market is segmented into solid, hollow, shell, and nodal. The solid segment held the largest share of the Middle East & Africa 3D woven fabrics market in 2022.

Based on fiber type, the Middle East & Africa 3D woven fabrics market is segmented into carbon fiber, glass fiber, and others. The carbon fiber segment held the largest

share of the Middle East & Africa 3D woven fabrics market in 2022.

Based on application, the Middle East & Africa 3D woven fabrics market is segmented into ballistics, aircraft, transportation, building and construction, and others. The aircraft segment held a larger share of the Middle East & Africa 3D woven fabrics market in 2022.

Based on country, the Middle East & Africa 3D woven fabrics market is segmented into South Africa, GCC, and the Rest of Middle East & Africa. The GCC dominated the share of the Middle East & Africa 3D woven fabrics market in 2022.

3D Weaving SaRL; Sigmatex Ltd; TEAM Inc; and Tex Tech Industries Inc are the leading companies operating in the Middle East & Africa 3D woven fabrics market.

Contents

1. INTRODUCTION

- 1.1 Study Scope
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation
 - 1.3.1 Middle East & Africa 3D Woven Fabrics Market, by Type
 - 1.3.2 Middle East & Africa 3D Woven Fabrics Market, by Fiber Type
 - 1.3.3 Middle East & Africa 3D Woven Fabrics Market, by Application
 - 1.3.4 Middle East & Africa 3D Woven Fabrics Market, by Country

2. KEY TAKEAWAYS

3. RESEARCH METHODOLOGY

- 3.1 Scope of the Study
- 3.2 Research Methodology
 - 3.2.1 Data Collection:
 - 3.2.2 Primary Interviews:
 - 3.2.3 Hypothesis formulation:
 - 3.2.4 Macro-economic factor analysis:
 - 3.2.5 Developing base number:
 - 3.2.6 Data Triangulation:
 - 3.2.7 Country level data:

4. MIDDLE EAST & AFRICA 3D WOVEN FABRICS MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Threat of New Entrants:
 - 4.2.2 Bargaining Power of Buyers:
 - 4.2.3 Bargaining Power of Suppliers:
 - 4.2.4 Intensity of Competitive Rivalry:
 - 4.2.5 Threat of Substitutes:
- 4.3 Ecosystem Analysis
 - 4.3.1 Raw Material Suppliers:
 - 4.3.2 Manufacturers:

- 4.3.3 Distributors or Suppliers:
- 4.3.4 End-Use Industries
- 4.4 Expert Opinion

5. MIDDLE EAST & AFRICA 3D WOVEN FABRICS MARKET – KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Increasing Demand for 3D Woven Fabrics from Aircraft Industry
 - 5.1.2 Growing Focus on Eco-Friendly and Sustainable Products
- 5.2 Market Restraints
 - 5.2.1 Hygroscopicity of 3D Woven Fabrics
- 5.3 Market Opportunities
 - 5.3.1 Applications of 3D Woven Fabrics in Sporting Goods Applications
- 5.4 Future Trends
 - 5.4.1 Development of Natural/Synthetic Fiber-Based Hybrid Composites
- 5.5 Impact Analysis

6. 3D WOVEN FABRICS – MIDDLE EAST & AFRICA MARKET ANALYSIS

- 6.1 Middle East & Africa 3D Woven Fabrics Market Overview
- 6.2 Middle East & Africa 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

7. MIDDLE EAST & AFRICA 3D WOVEN FABRICS MARKET ANALYSIS – BY TYPE

- 7.1 Overview
- 7.2 Middle East & Africa 3D Woven Fabrics Market, By Type (2021 and 2028)
- 7.3 Solid
 - 7.3.1 Overview
 - 7.3.2 Solid: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.4 Hollow
 - 7.4.1 Overview
 - 7.4.2 Hollow: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.5 Shell
 - 7.5.1 Overview
 - 7.5.2 Shell: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to

2028 (US\$ Million)

7.6 Nodal

7.6.1 Overview

7.6.2 Nodal: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

8. MIDDLE EAST & AFRICA 3D WOVEN FABRICS MARKET ANALYSIS – BY FIBER TYPE

8.1 Overview

8.2 Middle East & Africa 3D Woven Fabrics Market, By Fiber Type (2021 and 2028)

8.3 Carbon Fiber

8.3.1 Overview

8.3.2 Carbon Fiber: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

8.4 Glass Fiber

8.4.1 Overview

8.4.2 Glass Fiber: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

8.5 Others

8.5.1 Overview

8.5.2 Others: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

9. MIDDLE EAST & AFRICA 3D WOVEN FABRICS MARKET ANALYSIS – BY APPLICATION

9.1 Overview

9.2 Middle East & Africa 3D Woven Fabrics Market, By Application (2021 and 2028)

9.3 Ballistics

9.3.1 Overview

9.3.2 Ballistics: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

9.4 Aircraft

9.4.1 Overview

9.4.2 Aircraft: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

9.5 Transportation

9.5.1 Overview

9.5.2 Transportation: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

9.6 Building and Construction

9.6.1 Overview

9.6.2 Building and Construction: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

9.7 Others

9.7.1 Overview

9.7.2 Others: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

10. MIDDLE EAST & AFRICA 3D WOVEN FABRICS MARKET – COUNTRY ANALYSIS

10.1 Overview

10.1.1 Middle East & Africa 3D Woven Fabrics Market, by Key Country

10.1.1.1 South Africa: Middle East & Africa 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.1.1.1.1 South Africa: Middle East & Africa 3D Woven Fabrics Market, by Type

10.1.1.1.2 South Africa: Middle East & Africa 3D Woven Fabrics Market, by Fiber Type

10.1.1.1.3 South Africa: Middle East & Africa 3D Woven Fabrics Market, by Application

10.1.1.2 GCC: Middle East & Africa 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.1.1.2.1 GCC: Middle East & Africa 3D Woven Fabrics Market, by Type

10.1.1.2.2 GCC: Middle East & Africa 3D Woven Fabrics Market, by Fiber Type

10.1.1.2.3 GCC: Middle East & Africa 3D Woven Fabrics Market, by Application

10.1.1.3 Rest of MEA: Middle East & Africa 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.1.1.3.1 Rest of MEA: Middle East & Africa 3D Woven Fabrics Market, by Type

10.1.1.3.2 Rest of MEA: Middle East & Africa 3D Woven Fabrics Market, by Fiber Type

10.1.1.3.3 Rest of MEA: Middle East & Africa 3D Woven Fabrics Market, by Application

11. INDUSTRY LANDSCAPE

11.1 Product launch

11.2 Expansion

12. COMPANY PROFILES

- 12.1 Tex Tech Industries Inc
 - 12.1.1 Key Facts
 - 12.1.2 Business Description
 - 12.1.3 Products and Services
 - 12.1.4 Financial Overview
 - 12.1.5 SWOT Analysis
 - 12.1.6 Key Developments
- 12.2 Sigmatex Ltd
 - 12.2.1 Key Facts
 - 12.2.2 Business Description
 - 12.2.3 Products and Services
 - 12.2.4 Financial Overview
 - 12.2.5 SWOT Analysis
 - 12.2.6 Key Developments
- 12.3 3D Weaving SaRL
 - 12.3.1 Key Facts
 - 12.3.2 Business Description
 - 12.3.3 Products and Services
 - 12.3.4 Financial Overview
 - 12.3.5 SWOT Analysis
 - 12.3.6 Key Developments
- 12.4 TEAM Inc
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Developments

13. APPENDIX

- 13.1 About The Insight Partners
- 13.2 Glossary of Terms

List Of Tables

LIST OF TABLES

Table 1. Middle East & Africa 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Table 2. South Africa: Middle East & Africa 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 3. South Africa: Middle East & Africa 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 4. South Africa: Middle East & Africa 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 5. GCC: Middle East & Africa 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 6. GCC: Middle East & Africa 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 7. GCC: Middle East & Africa 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 8. Rest of MEA: Middle East & Africa 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 9. Rest of MEA: Middle East & Africa 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 10. Rest of MEA: Middle East & Africa 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 11. Glossary of Terms, Middle East & Africa 3D Woven Fabric Market

List Of Figures

LIST OF FIGURES

- Figure 1. Middle East & Africa 3D Woven Fabrics Market Segmentation
- Figure 2. Middle East & Africa 3D Woven Fabrics Market Segmentation – By Country
- Figure 3. Middle East & Africa 3D Woven Fabrics Market Overview
- Figure 4. Middle East & Africa 3D Woven Fabrics Market, By Type
- Figure 5. Middle East & Africa 3D Woven Fabrics Market, by Country
- Figure 6. Porter's Five Forces Analysis
- Figure 7. Ecosystem: Middle East & Africa 3D Woven Fabrics Market
- Figure 8. Expert Opinion
- Figure 9. Middle East & Africa 3D Woven Fabrics Market Impact Analysis of Drivers and Restraints
- Figure 10. Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 11. Middle East & Africa 3D Woven Fabrics Market Revenue Share, by Type (2021 and 2028)
- Figure 12. Solid: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 13. Hollow: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 14. Shell: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 15. Nodal: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 16. Middle East & Africa 3D Woven Fabrics Market Revenue Share, by Fiber Type (2021 and 2028)
- Figure 17. Carbon Fiber: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 18. Glass Fiber: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 19. Others: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 20. Middle East & Africa 3D Woven Fabrics Market Revenue Share, by Application (2021 and 2028)
- Figure 21. Ballistics: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 22. Aircraft: Middle East & Africa 3D Woven Fabrics Market – Revenue and

Forecast To 2028 (US\$ Million)

Figure 23. Transportation: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 24. Building and Construction: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 25. Others: Middle East & Africa 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 26. Middle East & Africa 3D Woven Fabrics Market, by Key Country– Revenue (2021) (US\$ Million)

Figure 27. Middle East & Africa 3D Woven Fabrics Market Revenue Share, by Key Country (2021 and 2028)

Figure 28. South Africa: Middle East & Africa 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 29. GCC: Middle East & Africa 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 30. Rest of MEA: Middle East & Africa 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

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