

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

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Abstracts

The 3D woven fabrics market size is expected to grow from US\$ 120.87 million in 2022 to US\$ 266.34 million by 2028; it is estimated to grow at a CAGR of 14.1% from 2022 to 2028.

3D woven fabrics are made with three-dimensional structures that are produced by interlacing yarns or fibers in three directions (x, y, and z). These fabrics have a unique and complex structure, which makes them useful in a wide range of applications, such as aerospace, automotive, building and construction, and other industries. The woven process of 3D woven fabrics involves interlacing two sets of yarns or fibers at right angles to each other, forming a two-dimensional plane. Then, a third set of yarns or fibers is woven through this plane at a 90-degree angle to create the third dimension. This creates a solid, stable structure with excellent mechanical properties. The global 3D woven fabrics market is mainly driven by the increasing demand for 3D woven fabrics from automotive and aircraft industry. Moreover, the market growth is fueled by a rise in the utilization of carbon fiber in various end-use industries. The higher utilization rate of carbon fiber in end-use industries such as aerospace, automotive, building and construction, and defense and military has broadened the scope of carbon fiber 3D woven fabrics. Automotive is one of the fastest-growing sectors across the globe and will expand rapidly in the coming years. Rise in preference of lightweight vehicles to improve efficiency and fuel economy is boosting the sector. Further, the increasing use of 3D woven fabrics in the automotive sector is expected to offer lucrative opportunities for the 3D woven fabrics market growth during the forecast period.

Based on application, the 3D woven fabrics market is segmented into ballistics, aircraft, transportation, building & construction, and others. The aircraft segment registered a larger share of the 3D woven fabrics market in 2022. 3D woven components exhibit high strength and wear capabilities compared to aluminum and steel alternatives. They allow weight reduction in existing airframe and structural components and have the ability to weave complex 3D shapes, such as turbine blades, without any worry about delamination. The adoption of 3D woven fabrics in aerospace manufacturing is increasing globally. Constant cross-section 3D Pi structures in the fabrics have been developed over the last decade and are being used in current developments worldwide. Solid 3D structures are being considered and developed for more technical aerospace applications where their interlaminar shear properties are expected to improve composite performance further.

In 2022, Europe held the largest revenue share of the global 3D woven fabrics market. Various advantages of using 3D woven fabrics over other alternatives are driving the 3D woven fabrics market growth in the region. The rise in R&D activities to develop 3D woven fabrics in Europe has the potential to create opportunities for business, export, and advanced manufacturing applications for aerospace and automotive industries in the region. In 2022, Biteam AB established 3D Noodles International AB—a company specializing in producing triangular cross-sectional 3D woven fabrics. In 2022, Carbon ThreeSixty Ltd received funding of US\$ 45.5 thousand from Niche Vehicle Network for Project Configurable Higher Density Energy Storage (CHiDEs), which utilizes 3D woven carbon fiber for the production of a range of reinforced pocketed structures. In 2021, Antich & Sons (Huddersfield) Ltd established advanced capability through a 3-year project with the University of Sheffield Advanced Manufacturing Research Centre (AMRC), funded by Innovate UK, for the production of 3D multilayer woven carbon fiber preforms for advanced composites used in automotive and aerospace industries. In 2020, 3D Woven SaRL integrated Radio Frequency Identification (RFID) tag into a multilayer 3D woven fabric for applications in textile industry, inventory management, and supply chain management.

The key players operating in the global 3D woven fabrics market include Textum OPCO LLC, Tex Tech Industries Inc, Sigmatech (UK) Ltd, 3D Weaving SaRL, Tantra Composite Technologies Pvt Ltd, U-Long High Tech Textile Co Ltd, TEAM Inc, Changzhou Bolong Three Dimensional Composites Co Ltd, Topweaving New Material Tech Co Ltd, and China Beihai Fiberglass Co Ltd. Players operating in the global 3D woven fabrics market focus on providing high-quality products to fulfill customer demand. They are also focusing on strategies such as investments in research and development activities

and new product launches.

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The overall global 3D woven fabrics market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. The participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants such as valuation experts, research analysts, and key opinion leaders—specializing in the 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 3D Woven Fabrics Market, by Type
 - 1.3.2 3D Woven Fabrics Market, by Fiber Type
 - 1.3.3 3D Woven Fabrics Market, by Application
 - 1.3.4 3D Woven Fabrics Market, by Geography

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. GLOBAL 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. GLOBAL 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 – GLOBAL MARKET ANALYSIS

- 6.1 3D Woven Fabrics Market Overview
- 6.2 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)
- 6.3 Market Positioning – Key Market Players

7. GLOBAL 3D WOVEN FABRICS MARKET ANALYSIS – BY TYPE

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

8. GLOBAL 3D WOVEN FABRICS MARKET ANALYSIS – BY FIBER TYPE

8.1 Overview

8.2 3D Woven Fabrics Market, By Fiber Type (2021 and 2028)

8.3 Carbon Fiber

8.3.1 Overview

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

8.4 Glass Fiber

8.4.1 Overview

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

8.5 Others

8.5.1 Overview

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

9. GLOBAL 3D WOVEN FABRICS MARKET ANALYSIS – BY APPLICATION

9.1 Overview

9.2 3D Woven Fabrics Market, By Application (2021 and 2028)

9.3 Ballistics

9.3.1 Overview

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

9.4 Aircraft

9.4.1 Overview

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

9.5 Transportation

9.5.1 Overview

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

9.7 Others

9.7.1 Overview

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

10. GLOBAL 3D WOVEN FABRICS MARKET – GEOGRAPHIC ANALYSIS

10.1 Overview

10.2 North America: 3D Woven Fabrics Market

10.2.1 North America: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.2.2 North America: 3D Woven Fabrics Market, by Type

10.2.3 North America: 3D Woven Fabrics Market, by Fiber Type

10.2.4 North America: 3D Woven Fabrics Market, by Application

10.2.5 North America: 3D Woven Fabrics Market, by Key Country

10.2.5.1 US: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.2.5.1.1 US: 3D Woven Fabrics Market, by Type

10.2.5.1.2 US: 3D Woven Fabrics Market, by Fiber Type

10.2.5.1.3 US: 3D Woven Fabrics Market, by Application

10.2.5.2 Rest of North America: 3D Woven Fabrics Market–Revenue and Forecast to 2028 (US\$ Million)

10.2.5.2.1 Rest of North America: 3D Woven Fabrics Market, by Type

10.2.5.2.2 Rest of North America: 3D Woven Fabrics Market, by Fiber Type

10.2.5.2.3 Rest of North America: 3D Woven Fabrics Market, by Application

10.3 Europe: 3D Woven Fabrics Market

10.3.1 Europe: 3D Woven Fabrics Market, by Type

10.3.2 Europe: 3D Woven Fabrics Market, by Fiber Type

10.3.3 Europe: 3D Woven Fabrics Market, by Application

10.3.4 Europe: 3D Woven Fabrics Market, by Key Country

10.3.4.1 Germany: 3D Woven Fabrics Market–Revenue and Forecast to 2028 (US\$ Million)

10.3.4.1.1 Germany: 3D Woven Fabrics Market, by Type

10.3.4.1.2 Germany: 3D Woven Fabrics Market, by Fiber Type

10.3.4.1.3 Germany: 3D Woven Fabrics Market, by Application

10.3.4.2 United Kingdom: 3D Woven Fabrics Market–Revenue and Forecast to 2028 (US\$ Million)

10.3.4.2.1 United Kingdom: 3D Woven Fabrics Market, by Type

10.3.4.2.2 United Kingdom: 3D Woven Fabrics Market, by Fiber Type

10.3.4.2.3 United Kingdom: 3D Woven Fabrics Market, by Application

10.3.4.3 Rest of Europe: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.3.4.3.1 Rest of Europe: 3D Woven Fabrics Market, by Type

10.3.4.3.2 Rest of Europe: 3D Woven Fabrics Market, by Fiber Type

10.3.4.3.3 Rest of Europe: 3D Woven Fabrics Market, by Application

10.4 Asia Pacific: 3D Woven Fabrics Market

10.4.1 Asia Pacific: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.4.2 Asia Pacific: 3D Woven Fabrics Market, by Type

10.4.3 Asia Pacific: 3D Woven Fabrics Market, by Fiber Type

10.4.4 Asia Pacific: 3D Woven Fabrics Market, by Application

10.4.5 Asia Pacific: 3D Woven Fabrics Market, by Key Country

10.4.5.1 China: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.4.5.1.1 China: 3D Woven Fabrics Market, by Type

10.4.5.1.2 China: 3D Woven Fabrics Market, by Fiber Type

10.4.5.1.3 China: 3D Woven Fabrics Market, by Application

10.4.5.2 India: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.4.5.2.1 India: 3D Woven Fabrics Market, by Type

10.4.5.2.2 India: 3D Woven Fabrics Market, by Fiber Type

10.4.5.2.3 India: 3D Woven Fabrics Market, by Application

10.4.5.3 Rest of Asia Pacific: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.4.5.3.1 Rest of Asia Pacific: 3D Woven Fabrics Market, by Type

10.4.5.3.2 Rest of Asia Pacific: 3D Woven Fabrics Market, by Fiber Type

10.4.5.3.3 Rest of Asia Pacific: 3D Woven Fabrics Market, by Application

10.5 Middle East and Africa: 3D Woven Fabrics Market

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

10.5.2 Middle East and Africa: 3D Woven Fabrics Market, by Type

10.5.3 Middle East and Africa: 3D Woven Fabrics Market, by Fiber Type

10.5.4 Middle East and Africa: 3D Woven Fabrics Market, by Application

10.5.5 Middle East and Africa: 3D Woven Fabrics Market, by Key Country

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

10.5.5.1.1 South Africa: 3D Woven Fabrics Market, by Type

10.5.5.1.2 South Africa: 3D Woven Fabrics Market, by Fiber Type

10.5.5.1.3 South Africa: 3D Woven Fabrics Market, by Application

10.5.5.2 GCC: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.5.5.2.1 GCC: 3D Woven Fabrics Market, by Type

10.5.5.2.2 GCC: 3D Woven Fabrics Market, by Fiber Type

10.5.5.2.3 GCC: 3D Woven Fabrics Market, by Application

10.5.5.3 Rest of MEA: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$

Million)

10.5.5.3.1 Rest of MEA: 3D Woven Fabrics Market, by Type

10.5.5.3.2 Rest of MEA: 3D Woven Fabrics Market, by Fiber Type

10.5.5.3.3 Rest of MEA: 3D Woven Fabrics Market, by Application

10.6 South & Central America: 3D Woven Fabrics Market

10.6.1 South & Central America: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.6.2 South & Central America: 3D Woven Fabrics Market, by Type

10.6.3 South & Central America: 3D Woven Fabrics Market, by Fiber Type

10.6.4 South & Central America: 3D Woven Fabrics Market, by Application

10.6.5 South & Central America: 3D Woven Fabrics Market, by Key Country

10.6.5.1 Brazil: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.6.5.1.1 Brazil: 3D Woven Fabrics Market, by Type

10.6.5.1.2 Brazil: 3D Woven Fabrics Market, by Fiber Type

10.6.5.1.3 Brazil: 3D Woven Fabrics Market, by Application

10.6.5.2 Rest of South & Central America: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

10.6.5.2.1 Rest of South & Central America: 3D Woven Fabrics Market, by Type

10.6.5.2.2 Rest of South & Central America: 3D Woven Fabrics Market, by Fiber Type

10.6.5.2.3 Rest of South & Central America: 3D Woven Fabrics Market, by Application

11. IMPACT OF COVID-19 PANDEMIC ON 3D WOVEN FABRICS MARKET

11.1 Overview

11.2 Impact of COVID-19 on 3D Woven Fabrics Market

11.3 North America: Impact Assessment of COVID-19 Pandemic

11.4 Europe: Impact Assessment of COVID-19 Pandemic

11.5 Asia Pacific: Impact Assessment of COVID-19 Pandemic

11.6 Middle East & Africa: Impact Assessment of COVID-19 Pandemic

11.7 South and Central America: Impact Assessment of COVID-19 Pandemic

12. INDUSTRY LANDSCAPE

12.1 Product launch

12.2 Expansion

13. COMPANY PROFILES

- 13.1 Textum OPCO LLC
 - 13.1.1 Key Facts
 - 13.1.2 Business Description
 - 13.1.3 Products and Services
 - 13.1.4 Financial Overview
 - 13.1.5 SWOT Analysis
 - 13.1.6 Key Developments
- 13.2 Tex Tech Industries Inc
 - 13.2.1 Key Facts
 - 13.2.2 Business Description
 - 13.2.3 Products and Services
 - 13.2.4 Financial Overview
 - 13.2.5 SWOT Analysis
 - 13.2.6 Key Developments
- 13.3 Sigmatex (UK) Ltd
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
- 13.4 3D Weaving SaRL
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 Tantra Composite Technologies Pvt Ltd
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
- 13.6 U-Long High Tech Textile Co Ltd
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services

- 13.6.4 Financial Overview
- 13.6.5 SWOT Analysis
- 13.6.6 Key Developments
- 13.7 TEAM Inc
- 13.7.1 Key Facts
- 13.7.2 Business Description
- 13.7.3 Products and Services
- 13.7.4 Financial Overview
- 13.7.5 SWOT Analysis
- 13.7.6 Key Developments
- 13.8 Changzhou Bolong Three Dimensional Composites Co Ltd
- 13.8.1 Key Facts
- 13.8.2 Business Description
- 13.8.3 Products and Services
- 13.8.4 Financial Overview
- 13.8.5 SWOT Analysis
- 13.8.6 Key Developments
- 13.9 Topweaving New Material Tech Co Ltd
- 13.9.1 Key Facts
- 13.9.2 Business Description
- 13.9.3 Products and Services
- 13.9.4 Financial Overview
- 13.9.5 SWOT Analysis
- 13.9.6 Key Developments
- 13.10 China Beihai Fiberglass Co Ltd
- 13.10.1 Key Facts
- 13.10.2 Business Description
- 13.10.3 Products and Services
- 13.10.4 Financial Overview
- 13.10.5 SWOT Analysis
- 13.10.6 Key Developments

14. APPENDIX

- 14.1 About The Insight Partners
- 14.2 Glossary of Terms

List Of Tables

LIST OF TABLES

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

Table 2. Global 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 3. Global 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 4. Global 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 5. North America 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 6. North America 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 7. North America 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 8. US 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 9. US 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 10. US 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 11. Rest of North America 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 12. Rest of North America 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 13. Rest of North America 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 14. Europe 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 15. Europe 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 16. Europe 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 17. Germany 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 18. Germany 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 19. Germany 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 20. United Kingdom 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 21. United Kingdom 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 22. United Kingdom 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 23. Rest of Europe 3D Woven Fabrics Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 24. Rest of Europe 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 25. Rest of Europe 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 26. Asia Pacific 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 27. Asia Pacific 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 28. Asia Pacific 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 29. China 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 30. China 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 31. China 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 32. India 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 33. India 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 34. India 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 35. Rest of Asia Pacific 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 36. Rest of Asia Pacific 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 37. Rest of Asia Pacific 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 41. South Africa 3D Woven Fabrics Market, by Type – Revenue and Forecast to

2028 (US\$ Million)

Table 42. South Africa 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 43. South Africa 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 44. GCC 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 45. GCC 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 46. GCC 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 47. Rest of MEA 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 48. Rest of MEA 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 49. Rest of MEA 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 50. South & Central America 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 51. South & Central America 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 52. South & Central America 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 53. Brazil 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 54. Brazil 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 55. Brazil 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 56. Rest of South & Central America 3D Woven Fabrics Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 57. Rest of South & Central America 3D Woven Fabrics Market, by Fiber Type – Revenue and Forecast to 2028 (US\$ Million)

Table 58. Rest of South & Central America 3D Woven Fabrics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 59. Glossary of Terms, 3D Weaving Fabric Market

List Of Figures

LIST OF FIGURES

- Figure 1. 3D Woven Fabrics Market Segmentation
- Figure 2. 3D Woven Fabrics Market Segmentation – By Geography
- Figure 3. Global 3D Woven Fabrics Market Overview
- Figure 4. Global 3D Woven Fabrics Market, By Type
- Figure 5. Global 3D Woven Fabrics Market, by Geography
- Figure 6. Global 3D Woven Fabrics Market, Industry Landscape
- Figure 7. Porter's Five Forces Analysis
- Figure 8. Ecosystem: 3D Woven Fabrics Market
- Figure 9. Expert Opinion
- Figure 10. Global 3D Woven Fabrics Market Impact Analysis of Drivers and Restraints
- Figure 11. Geographic Overview of 3D Woven Fabrics Market
- Figure 12. 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 13. 3D Woven Fabrics Market Revenue Share, By Type (2021 and 2028)
- Figure 14. Solid: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 15. Hollow: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 16. Shell: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 17. Nodal: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 18. 3D Woven Fabrics Market Revenue Share, By Fiber Type (2021 and 2028)
- Figure 19. Carbon Fiber: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 20. Glass Fiber: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 21. Others: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 22. 3D Woven Fabrics Market Revenue Share, By Application (2021 and 2028)
- Figure 23. Ballistics: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 24. Aircraft: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 25. Transportation: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 26. Building and Construction: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 27. Others: 3D Woven Fabrics Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 28. Global 3D Woven Fabrics Market Revenue Share, by Region (2021 and 2028)

Figure 29. North America: 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 30. North America: 3D Woven Fabrics Market Revenue Share, by Type (2021 and 2028)

Figure 31. North America: 3D Woven Fabrics Market Revenue Share, by Fiber Type (2021 and 2028)

Figure 32. North America: 3D Woven Fabrics Market Revenue Share, by Application (2021 and 2028)

Figure 33. North America: 3D Woven Fabrics Market Revenue Share, by Key Country (2021 and 2028)

Figure 34. US: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 35. Rest of North America: 3D Woven Fabrics Market–Revenue and Forecast to 2028 (US\$ Million)

Figure 36. Europe: 3D Woven Fabrics Market– Revenue and Forecast to 2028 (US\$ Million)

Figure 37. Europe: 3D Woven Fabrics Market Revenue Share, by Type (2021 and 2028)

Figure 38. Europe: 3D Woven Fabrics Market Revenue Share, by Fiber Type (2021 and 2028)

Figure 39. Europe: 3D Woven Fabrics Market Revenue Share, by Application (2021 and 2028)

Figure 40. Europe: 3D Woven Fabrics Market Revenue Share, by Key Country (2021 and 2028)

Figure 41. Germany: 3D Woven Fabrics Market–Revenue and Forecast to 2028 (US\$ Million)

Figure 42. United Kingdom: 3D Woven Fabrics Market–Revenue and Forecast to 2028 (US\$ Million)

Figure 43. Rest of Europe: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 44. Asia Pacific: 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 45. Asia Pacific: 3D Woven Fabrics Market Revenue Share, by Type (2021 and 2028)

Figure 46. Asia Pacific: 3D Woven Fabrics Market Revenue Share, by Fiber Type (2021 and 2028)

Figure 47. Asia Pacific: 3D Woven Fabrics Market Revenue Share, by Application (2021 and 2028)

Figure 48. Asia Pacific: 3D Woven Fabrics Market Revenue Share, by Key Country (2021 and 2028)

Figure 49. China: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 50. India: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 51. Rest of Asia Pacific: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 52. Middle East and Africa: 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 53. Middle East and Africa: 3D Woven Fabrics Market Revenue Share, by Type (2021 and 2028)

Figure 54. Middle East and Africa: 3D Woven Fabrics Market Revenue Share, by Fiber Type (2021 and 2028)

Figure 55. Middle East and Africa: 3D Woven Fabrics Market Revenue Share, by Application (2021 and 2028)

Figure 56. Middle East and Africa: 3D Woven Fabrics Market Revenue Share, by Key Country (2021 and 2028)

Figure 57. South Africa: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 58. GCC: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 59. Rest of MEA: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 60. South & Central America: 3D Woven Fabrics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 61. South & Central America: 3D Woven Fabrics Market Revenue Share, by Type (2021 and 2028)

Figure 62. South & Central America: 3D Woven Fabrics Market Revenue Share, by Fiber Type (2021 and 2028)

Figure 63. South & Central America: 3D Woven Fabrics Market Revenue Share, by Application (2021 and 2028)

Figure 64. South & Central America: 3D Woven Fabrics Market Revenue Share, by Key Country (2021 and 2028)

Figure 65. Brazil: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$

Million)

Figure 66. Rest of South & Central America: 3D Woven Fabrics Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 67. Impact of COVID-19 Pandemic on Market in North America

Figure 68. Impact of COVID-19 Pandemic on Market in Europe

Figure 69. Impact of COVID-19 Pandemic on Market in Asia Pacific

Figure 70. Impact of COVID-19 Pandemic on Market in Middle East & Africa

Figure 71. Impact of COVID-19 Pandemic in South and Central America

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