

Global 3D Woven Textiles Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global 3D Woven Textiles market size was valued at US\$ 97 million in 2024 and is forecast to a readjusted size of USD 249 million by 2031 with a CAGR of 14.6% during review period.

3D Weaving Fabrics weave warp, weft and normal fibers into a whole by use weaving technology. Composite materials based on three-dimensional woven fabrics can often be used as lightweight alternatives to steel and aluminum without sacrificing strength or durability, making them ideal for aerospace, heavy industry, shipping, transportation, and countless other applications.

Increasing Adoption in Aerospace and Defense: 3D woven textiles have gained traction in the aerospace and defense industries due to their ability to create complex and lightweight structures with improved mechanical properties. They are used in aircraft components, space structures, ballistic protection, and other defense applications.

Advancements in Material and Manufacturing Technology: Ongoing research and development efforts have led to advancements in material compositions and manufacturing techniques for 3D woven textiles. New fibers and resin systems, as well as automated manufacturing processes, have improved the overall performance and efficiency of 3D woven structures.

Lightweighting and Fuel Efficiency: With a growing focus on fuel efficiency and sustainability, industries such as automotive and aerospace are exploring the use of 3D woven textiles to reduce the weight of their products. Lightweight structures contribute to lower fuel consumption and emissions in transportation systems.

Application in Composite Reinforcements: 3D woven textiles are commonly used as reinforcements in composite materials, providing enhanced strength, stiffness, and damage tolerance. They find applications in various sectors, including automotive, aerospace, marine, and sporting goods.

This report is a detailed and comprehensive analysis for global 3D Woven Textiles market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 3D Woven Textiles market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global 3D Woven Textiles market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global 3D Woven Textiles market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global 3D Woven Textiles market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 3D Woven Textiles

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 3D Woven Textiles market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Top Weaving, Changzhou Bolong, Sigmatex, Cetriko, 3D Weaving, Tex Tech Industries, Textum Weaving, T.E.A.M. Inc., Cristex, Tantra Composite, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

3D Woven Textiles market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Glass Fiber

Carbon Fiber

Others

Market segment by Application

Traffic

Aviation & Military

Building

Others

Major players covered

Top Weaving

Changzhou Bolong

Sigmatex

Cetriko

3D Weaving

Tex Tech Industries

Textum Weaving

T.E.A.M. Inc.

Cristex

Tantra Composite

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 3D Woven Textiles product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Woven Textiles, with price, sales quantity, revenue, and global market share of 3D Woven Textiles from 2020 to 2025.

Chapter 3, the 3D Woven Textiles competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Woven Textiles breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and 3D Woven Textiles market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 3D Woven Textiles.

Chapter 14 and 15, to describe 3D Woven Textiles sales channel, distributors, customers, research findings and conclusion.

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