

U.S. Geotextile Market Size, Share & Trends Analysis Report By Material (Natural, Synthetic), By Product (Woven, Non-woven), By Application (Erosion Control, Drainage System), And Segment Forecasts, 2025 - 2030

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Abstracts

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U.S. Geotextile Market Growth & Trends

The U.S. geotextile market size is expected to reach USD 1.29 billion by 2030, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 4.1% from 2025 to 2030. The cost-effectiveness and longer lifespan of geotextiles compared to other materials and the growing environmental concerns regarding soil erosion are projected to drive the product demand in the U.S. Initiatives by regulatory bodies and promotional policies have aided in increasing the awareness related to the benefits offered by geotextiles.

The major applications of geotextiles include the construction of new roads and drainage systems. The U.S. is expected to contribute majorly to the product demand owing to their increasing penetration in the aforementioned applications. In addition, in 2021, under the Infrastructure Investment and Jobs Act (IIJA), the U.S. government announced over USD 550.00 billion to be invested from 2022 to 2026. A large investment amount is expected to go into infrastructure investment, where major investments are likely to be made in the construction of highways & bridges, marine, pipeline, airports, and railways.

Innovation backed by government initiatives and other regulatory bodies is another major factor that is positively contributing to market growth. A few factors responsible for the active participation of government bodies include the creation of employment for manufacturing & application and the improvement of current environmental conditions.

Geotextiles are manufactured with certain specifications such as tensile strength and opening size, depending on their application area. In the U.S., regulatory agencies, such as the American Association of State Highway and Transport Officials (AASHTO), have defined manufacturing standards, which include mandatory tests to address general requirements such as application area, application by geography, and quantity.

Trading geotextiles with such countries becomes easier as each country has its own set of defined standards for trade. In addition, geotextiles traded from the U.S. market yield higher quality results owing to the ideal geographical and climatic conditions. As a result, the export of products from the U.S. to other regions has also increased due to their high quality. This is expected to further propel the market growth in the country.

Geotextile is made of synthetic fibers such as nylon, polyester, or polyethylene. Petroleum is a major raw material for most of the aforementioned synthetic fibers. Excessive extraction of crude oil has resulted in the depletion of reserves and an increase in prices, thus encouraging a shift from petroleum-based products to other alternatives. The production of synthetic fibers has a negative impact on the environment, in terms of carbon emissions, during conversion and manufacturing processes (starting from raw material acquisition to textile fabrication).

U.S. Geotextile Market Report Highlights

Based on material, the market is divided into natural and synthetic. Synthetic material accounted for the largest segment with 91.8% revenue share in 2024. This growth is attributed to its high durability, strength, and moisture-resistant properties. Furthermore, they are easier to handle & manufacture and are cheaper than their natural counterparts.

Non-woven geotextiles led the market and accounted for the largest revenue share of 62.5% in 2024. Non-woven segment dominated the U.S. geotextile market accounting for a major share of the total market, in terms of volume, in 2024, owing to unique product properties such as absorbency, liquid repellency, and mechanical strength.

The demand for product is increasing in lining system applications as it acts as an additional protective layer that makes it puncture resistant and more resilient. Geotextiles are used in waste landfills, canals, dams, and mining for lining

systems. They resist water flow and reduce damage due to leakage, the canals must be lined with an impermeable layer.

The threat of substitution is considered moderate owing to the presence of Geotextile substitutes include a variety of geosynthetics such as geonets and geogrids. These products perform the same functions as geotextiles. Geotextiles, on the other hand, are less expensive since they are manufactured with low-cost raw ingredients and very easy manufacturing procedures.

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