

Ceramic Textile Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Fibre Type (Vitreous Alumina-Silica Ceramic Fibre and Polycrystalline Ceramic Fibre), By Form Type (Cloth, Tapes, Sleeving, Ropes, Braids and Others), By End-Use Industry (Industrial and Transportation), By Region & Competition, 2021-2031F

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Abstracts

The Global ceramic textile market is expected to expand from USD 194.89 million in 2025 to USD 332.47 million by 2031, registering a CAGR of 9.31%. These high-performance materials are crafted from ceramic fibers woven into tapes, ropes, or cloths, and are frequently reinforced with alloy steel or fiberglass. Designed for extreme conditions, they offer remarkable flexibility and thermal insulation while strongly resisting mechanical stress, chemical corrosion, and intense heat.

Market growth is primarily fueled by a rising need for sophisticated thermal insulation across industries such as automotive, metallurgy, and aerospace. Expanding this demand is the push for enhanced energy efficiency, strict safety regulations requiring heat-resistant materials, and the necessity for durable, lightweight parts in extreme-temperature settings. Illustrating this positive trend, the Advanced Textiles Association's 2025 State of the Industry survey noted that roughly two-thirds of advanced textile companies expected revenue growth in 2025, highlighting confidence in markets relying on these components. Nevertheless, the high cost of production, driven by complex manufacturing and expensive raw materials, acts as a primary obstacle, restricting wider usage in various potential applications.

Market Driver

The outstanding durability and superior thermal capabilities of ceramic textiles are primary catalysts for market growth. Designed to endure severe chemical exposure and intense heat, these materials are essential for crucial protective and insulation roles where standard options fall short. By retaining their insulation qualities and structural integrity at extreme temperatures, they boost operational efficiency and prolong equipment life. For example, Unifrax Fiberfrax® ceramic fiber products provide thermal stability up to 3000°F in industrial settings, offering a reliability that cuts down maintenance expenses and operational downtime, which is highly prized in capital-intensive sectors needing consistent performance.

Growing demand for high-temperature industrial applications is another major force accelerating the ceramic textile market. Industries like metal processing, petrochemicals, and aerospace increasingly depend on advanced materials that function effectively under extreme stress and heat, particularly those offering structural support and thermal control at temperatures exceeding 1200°C. Reflecting this trend, Morgan Advanced Materials announced in its March 2026 release of full-year 2025 results that its Technical Ceramics division, which supplies aerospace materials, saw revenue increase by 3.4% on an organic constant-currency basis to \$341.6 million. Additionally, the company reported an overall headline revenue of \$1,030.3 million for 2025, demonstrating the rising adoption of specialized ceramic materials and the broadening prospects for ceramic textiles in demanding high-temperature sectors.

Market Challenge

A major barrier to the growth of the global ceramic textile market is the substantial cost of production. This issue is primarily driven by the need for costly raw materials and the intricate, highly specialized manufacturing methods required to create ceramic fibers and weave them into final goods. Consequently, ceramic textiles enter the market at a premium, making them a much more expensive choice when compared to standard insulation options and various other high-performance substitutes.

These premium prices limit wider market acceptance, especially in sectors or use cases where budgets are tight and cheaper alternatives can deliver adequate, albeit lower, performance. As a result, industrial buyers are often driven toward more budget-friendly substitutes, hindering the broader adoption and momentum of the ceramic textile industry. Highlighting this issue, the Advanced Textiles Association's 2025 State of the Industry survey revealed that more than 90% of advanced textile companies raising their prices attributed the hike to escalating supplier expenses. This widespread pattern

emphasizes how steep input costs significantly impact the advanced textile industry, directly restricting the accessibility of specialized products like ceramic textiles.

Market Trends

A prominent trend transforming the global ceramic textile market is the progress in developing flexible and lightweight ceramic materials, which broadens their versatility and range of uses. Recent innovations aim to produce ceramic fibers that are easier to adapt and weigh less, without sacrificing their exceptional resistance to heat and chemicals. This progress allows ceramic textiles to be utilized in innovative applications where heavy or rigid traditional insulation would be unsuitable. Illustrating this push for innovation, the American Ceramic Society noted in March 2026 that Clemson University's US\$130 million Advanced Materials Innovation Complex is actively supporting research that drives the creation of these adaptable materials. Such developments empower manufacturers to satisfy the shifting needs of sectors prioritizing structural weight reduction and enhanced energy efficiency.

Another crucial trend fueling market growth is the rapid integration of ceramic textiles into the thermal management systems of hybrid and electric vehicles. With the automotive sector's swift shift toward electrification, securing effective and durable thermal insulation for power electronics, motors, and battery packs is essential for maximizing performance, prolonging battery life, and ensuring safety. Ceramic textiles are exceptionally suited to meet the rigorous fire protection and temperature demands inherent to these automotive systems. Highlighting this expanding integration, major material supplier Alkegen announced in June 2025 the full commercial launch of its fiber-enhanced AlkeGel™ aerogel insulation designed for electric vehicle batteries, reflecting substantial investment and a growing reliance on advanced ceramic solutions in the booming EV market.

Key Market Players

Kyocera Corporation

Morgan Advanced Materials Corporation

Ibiden Co. Ltd.

Rath AG

Luyang Energy-Saving Materials Co. Ltd.

Zircar Zirconia Inc.

Mineral Seal Corporation

3M Company

Unifrax Holding II Corporation

Isolite Insulating Products Co. Ltd.

Report Scope

In this report, the Global Ceramic Textile Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Ceramic Textile Market, By Fibre Type

Vitreous Alumina-Silica Ceramic Fibre

Polycrystalline Ceramic Fibre

Ceramic Textile Market, By Form Type

Cloth

Tapes

Sleeving

Ropes

Braids

Others

Ceramic Textile Market, By End-Use Industry

Industrial

Transportation

Ceramic Textile Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Ceramic Textile Market.

Available Customizations:

Global Ceramic Textile Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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