

Global Continuous Basalt Fiber Market – Product Forms and Applications

This report analyzes the global Continuous Basalt Fiber (CBF) Market across the period 2022–2031, with 2025 as the estimated year and forecasts through 2031. The study presents market size estimates in volume (metric tons) and value (US\$), providing comprehensive insights into key growth trends, regional dynamics, and competitive developments. Segmentation covers Product Form (Rovings, Chopped Strands, Fabrics, and Other Forms including twisted yarns, mats, tapes, and tissues) and Application (Construction & Infrastructure; Automotive & Transportation including marine and aerospace; Electrical & Electronics; Industrial including chemicals, petrochemicals, and manufacturing; Pipes & Tanks; and Other Applications).

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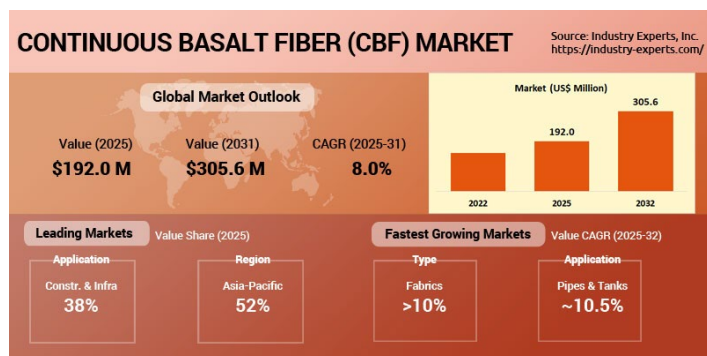
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Global Continuous Basalt Fiber (CBF) Market Trends and Outlook

Continuous basalt fiber (CBF), produced by melting and extruding natural volcanic rock, has emerged as one of the most promising advanced materials in the global composites industry. With its unique combination of high tensile strength, superior chemical and thermal resistance, and environmental sustainability, CBF provides a viable alternative to traditional glass and carbon fibers across a growing range of applications. The market's rapid expansion reflects rising adoption in construction and infrastructure, which holds the largest share, followed by automotive & transportation (including marine and aerospace), pipes & tanks, and electrical & electronics. Smaller but steadily expanding uses are observed in industrial, energy, and sports & leisure sectors. In 2025, the global CBF market is projected to reach around 45.5 thousand metric tons in volume, equivalent to approximately US\$195 million in value, supported by increasing commercialization of basalt fiber-reinforced rebar, fabrics, and hybrid composites across structural and mobility applications.



Continuous Basalt Fiber (CBF) Market Report Scope

This global report on Continuous Basalt Fiber (CBF) market analyzes the global and regional markets based on product form and application for the period 2022-2031 with forecasts from 2025 to 2031 in terms of value in US\$. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period:	2022-2024
Base Year:	2025
Forecast Period:	2025-2031
Units:	Volume in Metric Tons and Value market in US\$
Companies Mentioned:	33

Continuous Basalt Fiber (CBF) Market by Geographic Region

- North America (The United States, Canada)
- Europe (France, Germany, Italy, Russia, the United Kingdom and Rest of Europe)
- Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)
- Rest of World (Latin America and Middle-East & Africa)

Continuous Basalt Fiber (CBF) Market by Product Form

- Rovings
- Chopped Strands
- Fabrics
- Other Forms (includes twisted yarns, mats, tapes, tissues etc.)

Continuous Basalt Fiber (CBF) Market by Application

- Construction & Infrastructure
- Automotive & Transportation (including marine and aerospace etc.)
- Electrical & Electronics
- Industrial (includes chemicals and petrochemical industries, manufacturing etc.)
- Pipes & Tanks
- Other Applications (includes sports & leisure, energy, medical prosthetics, robotics etc.)

SAMPLE COMPANY PROFILE

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Business Overview

Kamenny Vek Company is recognized as the world's leading manufacturer of continuous andesite-basalt fiber, produced and marketed under its registered trademark BasFiberPro®. Headquartered in Russia, the company operates two state-of-the-art production plants located in Dubna and Kimry, where it manufactures high-strength andesite-basalt fibers, a material distinct from conventional basalt fiber due to its superior mechanical, thermal, and chemical properties. Unlike most global producers who rely on relatively easy-to-process basalt raw materials, Kamenny Vek's proprietary process uses andesite-basalt rock, enabling the production of fibers with significantly higher tensile strength, modulus, and stability, setting a new benchmark for high-performance mineral fibers.

The company's BasFiberPro® technology is based on an advanced process analogous to E-glass fiber manufacturing, utilizing large-scale melting furnaces with an annual capacity of up to 4,500 metric tons per line. This design allows precise control over melting and drawing temperatures, ensuring consistent fiber quality and low variability. Kamenny Vek employs large-sized bushings to enable full-scale production of single-end rovings in 1200, 2000, and 2400 tex, a capability unmatched by any other basalt fiber producer operating single- or dual-module furnaces.

In September 2020, Kamenny Vek launched a new, highly automated production line equipped with the latest process control and fiber-forming systems, tripling output capacity while improving fiber uniformity and surface quality. The new line also introduced high-capacity bobbins (up to 20 kg) to enhance customer efficiency and reduce handling time, marking a major innovation in the production of continuous andesite-basalt fiber. Through continuous investment in R&D, advanced equipment, and proprietary sizing formulations, the company has expanded the range of BasFiberPro® products and their applications across industries such as aerospace, automotive, construction, marine, and energy.

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SAMPLE TABLE/CHART

Glance at 2022, 2025 and 2031 Global Continuous Basalt Fiber Market Share (%) by Product Form - Rovings, Chopped Strands, Fabrics and Other Forms



Global Continuous Basalt Fiber Rovings Market Analysis (2022-2031) by Geographic Region - North America, Europe, Asia-Pacific and Rest of World in Metric Tons



KEY PLAYERS PROFILED

- ABV Holding LLC
- Arab Basalt Fiber Company
- ArmBasalt CJSC (ARMBAS)
- ASA.TEC GmbH (CARBON Group)
- Basalt Fibers
- Basalt Uzbekistan
- Basaltex NV
- China Beihai Fiberglass Co., Ltd.
- Chongqing Hesheng Longgang Technology Co. Ltd.
- Chongqing Zhidu New Material Technology Co., Ltd.
- Deutsche Basalt Faser (DBF) GmbH
- Guizhou Shixin Basalt Technology Co., Ltd.
- Hengdian GBF Basalt Fiber Co., Ltd.

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