

Global Flame-blown C-glass Microfiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Flame-blown C-glass Microfiber market size is expected to reach \$ 623 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

Global sales of flame-blown C-glass microfiber reached 109.3 thousand tons in 2025, with an average price of US\$2,422 per ton.

Flame-blown C-glass microfiber is an acid-resistant borosilicate glass microfiber produced through a flame attenuation process. Its fiber diameter typically ranges from 0.5 to 3 micrometers, exhibiting extremely high specific surface area and excellent acid resistance. The process involves first forming coarser primary fibers from molten glass (flowing through a perforator or crucible), then feeding them into a high-temperature, high-velocity combustion flame (typically using natural gas-oxygen or propane-oxygen flames, reaching temperatures of 1500-2000°C). The heat and kinetic energy of the flame are used to stretch and refine the fibers to the target diameter. C-glass (Chemical glass) is a special glass formulation based on silicon dioxide, containing a high proportion of calcium oxide, boron oxide, and sodium oxide. It exhibits excellent acid corrosion resistance, making it particularly suitable for applications with harsh chemical environments, such as AGM (Absorbent Glass Gap) separators in lead-acid batteries.

The raw material system for flame-processed C-glass microfibers is based on mineral raw materials, primarily including: quartz sand (SiO_2 , 50-60%) as the network former; borax ($\text{Na}_2\text{B}_4\text{O}_{10}\cdot\text{H}_2\text{O}$, 5-10%) to introduce B_2O_3 to lower the melting point and improve acid resistance; limestone (CaCO_3 , 10-15%) to provide CaO to enhance chemical stability; soda ash (Na_2CO_3 , 10-15%) as a flux; and fluorite (CaF_2 , 1-3%) as a clarifying agent to accelerate bubble removal. Some high-end formulations also add zirconium oxide (ZrO_2) or barium oxide (BaO) to further enhance acid resistance and

strength. In the production process, raw materials are melted in a tank furnace at 1500-1600°C to form molten glass, which flows out through a platinum-rhodium alloy baffle (400-4000 holes) to form primary fibers (20-100µm in diameter). These fibers are then rapidly stretched and refined to the target diameter (0.5-3µm) by a high-temperature gas flame (1500-2000°C). Finally, the finished product is produced through processes such as fiber collection, sizing (for some products), drying, and slitting.

In terms of cost structure, raw material costs account for approximately 35-45%, with relatively stable prices for mineral raw materials such as quartz sand, borax, and soda ash. However, high-quality low-iron quartz sand (Fe_2O_3)

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