

High-Temperature Composite Materials Market research report titled “High-Temperature Composite Materials Market based on Temperature Range (High and Ultra-High), Matrix System (PMC, CMC and MMC Materials), Application (Aerospace & Defense, Transportation, Energy & Power, E&E and Others) and by Region – Trends & Forecast – 2020-2030

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Abstracts

Lightweight composites with a resistance to 1000°C are known as high-temperature materials. Lightweight composites have superior thermo-mechanical performance and maintain their shape at high temperatures. High-temperature composite materials have a number of advantageous properties, such as incombustibility, the lack of smoke when heated or burned, and vibration resistance.

Manufacturing exhaust ducts, heat shields, fire barriers, pipes for hot fluids or gases, and other structural elements are some of their main applications. For the fuel tanks of rocket propulsion systems, cryogenic tanks, nuclear power plants, vehicle engines, and aeroplane fuselage heat insulation material, high-temperature composite materials are also used as thermal and acoustic insulators.

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