

South America Advanced Composites Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Fiber Type (Carbon Fiber Composites, Aramid Fiber Composites, Glass Fiber Composites, and Others), Matrix Type [Epoxy Resin, Phenolics, Polyester Resin, Polyurethane Resin, Polyphenylene Sulfide (PPS), Polyetherimide (PEI), and Others], and End-Use Industry (Aerospace & Defense, Automotive, Wind Energy, Building & Construction, Electrical & Electronics, and Others)

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Abstracts

The South America advanced composites market is expected to grow from US\$ 911.83 million in 2022 to US\$ 1,445.19 million by 2028. It is estimated to grow at a CAGR of 8.0% from 2022 to 2028.

Increasing Demand for Nanocomposites is Fueling South America Advanced Composites Market

Nanocomposites are materials that incorporate nanosized particles into a matrix of standard material. To overcome the limitation of different engineering materials, nanocomposites act as a beneficial alternative. Nanocomposites can be classified based on their dispersed matrix and dispersed phase materials. Polymeric nanocomposites are materials incorporating nanosized inclusions into the polymer matrices. They exhibit excellent mechanical properties, flame retardancy, enhanced modulus & dimensional stability, improved scratch resistance, superior thermal and

processing properties, reduced warpage of components, and enhanced impact resistance, making them suitable to replace metals in various industrial applications. These nanocomposites are widely used in medical, electronics, automotive, food packaging, and sport equipment applications. They are also used in aeronautics and spaceflight due to their ability to withstand tension and extreme temperatures. Furthermore, growing research and development efforts are also increasing the applications of nanocomposites. Hence, the rising demand for nanocomposites and associated research & development activities is expected to offer lucrative opportunities for the South America advanced composites market growth during the forecast period.

South America Advanced Composites Market Overview

In South America, the construction industry is expanding, and various countries such as Brazil are investing their capital expenditure on many projects in infrastructure. The ongoing infrastructure projects such as “Jubarte Offshore Oil Field Development” and “Pre-Salt Submarine Fiber Optic Cable Network” are expected to grow the demand for carbon-reinforced composites and glass-reinforced composites during the tenure of these infrastructure projects. Further, governments of various countries in South America are focusing on developing more infrastructure projects owing to surging urbanization. Moreover, advanced composites make lighter, safer, and more fuel-efficient vehicles, hence, the automotive companies in Brazil and Argentina are using these reinforced composites, which propels the sales of advanced composites in the region. For instance, according to the report by the Brazilian Association of Automotive Vehicle Manufacturers, the production of automobiles in Brazil grew by 11.4%, and the sales were boosted by 10.9% from February to March 2022. Moreover, a few major market players operating in the automotive sector have strategized the development and expansion of their operational capacities in South America to fuel the growth of the automotive market. For instance, in 2022, Audi AG invested US\$ 19.2 million to restart production at its plant in Parana, Brazil, registering a capacity of 4,000 vehicles per year. Thus, increased production capacity of major automobile players would eventually increase the demand for raw materials such as advanced composites for its production.

Exhibit: South America Advanced Composites Market Revenue and Forecast to 2028 (US\$ Million)

South America Advanced Composites Market Segmentation

The South America advanced composites market is segmented based on fiber type, matrix type, end-use industry, and country.

Based on fiber type, the South America advanced composites market is segmented into carbon fiber composites, aramid fiber composites, glass fiber composites, and others. The carbon fiber composites segment held the largest share of the South America advanced composites market in 2022.

Based on matrix type, the South America advanced composites market is segmented into epoxy resin, phenolics, polyester resin, polyurethane resin, polyphenylene sulfide (PPS), polyetherimide (PEI), and others. The epoxy resin segment held the largest share of the South America advanced composites market in 2022.

Based on end-use industry, the South America advanced composites market is segmented into aerospace & defense, automotive, wind energy, building & construction, electrical & electronics, and others. The aerospace & defense segment held the largest share of the South America advanced composites market in 2022.

Based on country, the South America advanced composites market has been categorized into Brazil, Argentina, and the Rest of South America. Our regional analysis states that Brazil dominated the South America advanced composites market in 2022.

Avient Corp, Ensinger GmbH, Johns Manville Corp, Mitsubishi Chemical Corp, Owens Corning, SGL Carbon SE, Solvay SA, Teijin Ltd, and Toray Industries Inc are the leading companies operating in the South America advanced composites market.

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