

North America Aerospace Insulation Market Forecast to 2028 - COVID-19 Impact and Regional Analysis - by Product (Thermal Insulation, Acoustic Insulation, Vibration Insulation, and Electric Insulation), Aircraft (Commercial Aircraft, Military Aircraft, and Helicopters), Application (Engine and Airframe), and Insulation Material (Mineral Wool, Ceramic-based Materials, Foamed Plastics, and Fiberglass)

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Report description:

The aerospace insulation market in North America is expected to grow from US\$ 2,145.57 million in 2022 to US\$ 2,870.88 million by 2028. It is estimated to grow at a CAGR of 5.0% from 2022 to 2028.

Surging Aircraft Manufacturing Sector and Increase in Fleet Replacement

The rising demand for lightweight fleet, new generation, and fuel-efficient aircraft with the increasing emphasis on reducing emissions is expected to increase aircraft production. The growth in the development of the travel industry in emerging markets, coupled with the increasing number of passengers for outbound and domestic travel, are the major factors driving the growth of the industry. In addition, increasing investments in technological developments and the growing need to replace obsolete aircraft with newer, more fuel-efficient, and advanced aircraft are supporting the growth of the aircraft manufacturing industry. In addition, the increasing disposable income of the middle class and the growing trend to reduce aircraft weight by using lightweight components to improve fuel efficiency are creating demand in the industry.

With the increase air passenger traffic growth, and increase in disposable income with expansion of middle class have made air travel more affordable is driving the demand for new aircraft bodies, those are lightweight and helps in reducing global carbon emission.

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Market Overview

Currently, North America is witnessing an increased demand for aerospace insulation due surge in demand for fuel-efficient engines with corrosion-resistant insulation. Additionally, an increase in the rate of fleet replacement, where old generation aircraft are being replaced with new generation aircraft, is expected to benefit the market growth. The largest aircraft deliveries are also seen in North America. It also accounts for the largest passenger traffic. The North American region also spends the most on technology and R&D programs. It also has the largest defense spending in the world. North America is home to some of the giants in the aircraft manufacturing industry such as Raytheon Technologies, Boeing, Lockheed Martin, etc. Moreover, the region is expected to witness a growing demand for fuel-efficient aircraft in the next few years on account of rising fuel prices. The high replacement rate mainly for regional aircraft is fueling the growth of the aerospace industry, which, in turn, is expected to increase the demand for aircraft insulation over the forecast period.

North America Aerospace Insulation Market Revenue and Forecast to 2028 (US\$ Million)

North America Aerospace Insulation Market Segmentation

The North America aerospace insulation market is segmented into product, insulation material, aircraft, application, and country.

Based on product, the market is segmented into thermal insulation, acoustic insulation, electric insulation, and vibration insulation. The thermal insulation segment registered the largest market share in 2022. Based on insulation material, the market is categorized into mineral wool, ceramic-based materials, foamed plastics, and fiberglass and others. The ceramic-based materials segment held the largest market share in 2022. Based on aircraft, the North America aerospace insulation market is segmented into commercial aircraft, military aircraft, and helicopters. The commercial aircraft segment held the largest market share in 2022. Based on application, the North America aerospace insulation market is bifurcated into engine and airframe. The airframe segment held the largest market share in 2022. Based on country, the market is segmented into the US, Canada, and Mexico. The US dominated the market share in 2022. Duracote Corporation; Rogers Corporation; DuPont; BASF SE; 3M; Morgan Advanced Materials Plc; Polymer Technologies Inc.; TransDigm Group Incorporated; Triumph Group, Inc.; and Johns Manville are the leading companies operating in the aerospace insulation market in the region.

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