

Aircraft Insulation Market by Platform (Fixed Wing, Rotary Wing), Type (Thermal, Acoustic & Vibration, Electric), Material (Foamed Plastics, Fiberglass, Mineral Wool, Ceramic-based Materials), Application (Airframe, Engine) and Region - Forecast to 2026

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Abstracts

The global aircraft insulation market size is projected to grow from USD 5.5 billion in 2021 to USD 8.2 billion by 2026, at a CAGR of 8.3% from 2021 to 2026. The market is driven by various factors, such as increase in demand for lightweight materials, introduction of advanced acoustic and fire resistant materials resulting in safer operations of aircraft, declining cost of composite materials, and increasing demand for military helicopters.

Increase in demand for lightweight insulation materials is a key factor that is expected to drive the aircraft insulation market. There is an increase in the use of composite materials to manufacture aerostructures. These materials include concrete, fiber-reinforced polymer, metal composites, and ceramic composites. These materials are combined to make composite materials that have high strength, flexibility, and are lightweight as compared to aluminum or steel. Furthermore, these materials are corrosion-resistant, which keeps the covers of an aerostructure tight under any weather condition.

Investments made towards research & development of new materials in the aircraft insulation market have led to the development of advanced composite materials, such as Polymer Matrix Composites (PMCs), Ceramic Matrix Composites (CMCs), and Metal Matrix Composites (MMCs). These composites have heat absorption capacity, less weight, noise cancellation capability, vibration absorbance, etc.

Such advancements in the aircraft insulation technology are expected to lead to their demand during the forecast period.

The aircraft insulation market includes major players DuPont (US), Triumph Group, Inc. (US), Transdigm Group, Inc. (US), Zotefoams (UK), BASF SE (Germany), Rogers Corporation (US), Safran Group (France), and Evonik Industries (Germany). These players have spread their business across various countries includes North America, Europe, Asia Pacific, and Rest of the World. COVID-19 has impacted their businesses as well. Industry experts believe that COVID-19 has affected aircraft insulation production and services globally in 2020.

“Acoustic & Vibration Insulation: The largest segment of the Aircraft Insulation market, by Type. “

The acoustic & vibration insulation is projected to dominate the aircraft insulation market during the forecast period. There are different types of noises and vibrations generated from aerodynamics and other mechanical systems in an aircraft. However, the main sources of noise in an aircraft are engines and airflow, which transmit through a plane's fuselage and structure. The noise is often perceived as a rumble or a roar. This creates an uncomfortable environment inside the aircraft. Vibration and acoustic insulation materials such as fiberglass and polyimides absorb the sound and vibration and stop the flow of vibration from one point to another. In addition, the damping treatment is carried out directly on an aircraft's skin to reduce the effects of boundary-level excitation, engine exhaust, and engine vibration. They are also applied on the interior trim structure to reduce the effects of noise and vibration.

“Foamed Plastics: The fastest-growing segment of the aircraft insulation market, by Material. “

Based on the material, foamed plastics is projected to grow at the highest CAGR for the aircraft insulation market during the forecast period. Plastic foams are widely used in a cabin in seat cushions and mattresses to absorb heat, noise insulation, vibration, etc. The aerospace industry uses various materials such as polyimide and polyurethane foams, combining acoustic and thermal insulation to be used in aircraft cabin in linings, wall panels, and rest of the areas or insulation blankets for door areas of the aircraft.

“Airframe: The fastest-growing segment of the aircraft insulation market, by Application. “

Based on the application, the airframe segment is projected to grow at the highest CAGR rate for the aircraft insulation market during the forecast period. The airframe of an aircraft includes aircraft wings, flight control surfaces, fuselage, etc. It is the backbone of the aircraft, and is responsible for a safe, efficient, and reliable flight. The use of lightweight and high-strength composite materials for the development of the structure of an aircraft is anticipated to drive the growth of the aircraft insulation market.

“Unmanned Aerial Vehicles: The fastest-growing segment of the aircraft insulation market, by Platform. “

Based on the platform, the unmanned aerial vehicles segment is projected to grow at the highest CAGR rate for the aircraft insulation market during the forecast period. UAVs include all military and non-military drones used for different applications such as surveillance, security, and battlefields. The market for UAVs is growing at a healthy rate and is not much affected by the COVID-19 outbreak. Furthermore, insulation is required to protect critical components of drones such as electrical systems and cameras. Hence, such factors are driving the growth of the segment.

“North America: The largest contributing region in the aircraft insulation market.”

North America is projected to be the largest regional share of the global aircraft insulation market during the forecast period. North America has the largest commercial aircraft fleets and military aircraft in the world. It also has the largest number of OEMs and MRO companies of the aircraft insulation market. The largest aircraft deliveries are also seen in the North American Region. It also accounts for the largest passenger traffic. The North American region also spends the most in technological 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, like Raytheon Technologies, Boeing, Lockheed Martin etc.

Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1–35%; Tier 2–45%; and Tier 3–20%

By Designation: C Level–35%; Directors–25%; and Others–40%

By Region: North America–40%; Europe–20%; Asia Pacific–30%; Middle East & Africa–5%; and South America–5%

DuPont (US), Triumph Group, Inc. (US), Transdigm Group, Inc. (US), Zotefoams (UK), BASF SE (Germany), Rogers Corporation (US), Safran Group (France), and Evonik Industries (Germany). are some of the leading players operating in the aircraft insulation market report.

Research Coverage

The study covers the aircraft insulation market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on type, material, application, platform, and region. This study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their product and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

Reasons to Buy this Report

This report is expected to help market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall aircraft insulation market and its segments. This study is also expected to provide region wise information about the end use, and wherein aircraft insulation are used. This report aims at helping the stakeholders understand the competitive landscape of the market, gain insights to improve the position of their businesses and plan suitable go-to-market strategies. This report is also expected to help them understand the pulse of the market and provide them with information on key drivers, restraints, challenges, and opportunities influencing the growth of the market.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
 - 1.3.1 MARKETS COVERED
 - 1.3.2 REGIONAL SCOPE
 - 1.3.3 YEARS CONSIDERED FOR THE STUDY
- 1.4 INCLUSIONS & EXCLUSIONS
- 1.5 CURRENCY & PRICING
- 1.6 USD EXCHANGE RATES
- 1.7 LIMITATIONS
- 1.8 STAKEHOLDERS
- 1.9 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - FIGURE 1 REPORT PROCESS FLOW
 - FIGURE 2 RESEARCH DESIGN
 - 2.1.1 SECONDARY DATA
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 SEGMENTS AND SUBSEGMENTS
- 2.3 RESEARCH APPROACH & METHODOLOGY
 - 2.3.1 BOTTOM-UP APPROACH
 - 2.3.2 AIRCRAFT INSULATION MARKET
 - FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH
 - 2.3.3 TOP-DOWN APPROACH
 - FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH
- 2.4 DATA TRIANGULATION
 - FIGURE 5 DATA TRIANGULATION
 - 2.4.1 TRIANGULATION THROUGH PRIMARY AND SECONDARY RESEARCH
- 2.5 GROWTH RATE ASSUMPTIONS
- 2.6 ASSUMPTIONS FOR THE RESEARCH STUDY
- 2.7 RISKS

3 EXECUTIVE SUMMARY

FIGURE 6 BY TYPE, ACOUSTIC & VIBRATION SEGMENT PROJECTED TO LEAD DURING FORECAST PERIOD

FIGURE 7 BY MATERIAL, FOAMED PLASTICS SEGMENT ESTIMATED TO LEAD AIRCRAFT INSULATION MARKET DURING FORECAST PERIOD

FIGURE 8 NORTH AMERICA ESTIMATED TO LEAD AIRCRAFT INSULATION MARKET IN 2021

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES IN AIRCRAFT INSULATION MARKET
FIGURE 9 INCREASING DEMAND FOR MILITARY HELICOPTERS TO DRIVE AIRCRAFT INSULATION MARKET GROWTH

4.2 AIRCRAFT INSULATION MARKET, BY APPLICATION

FIGURE 10 AIRFRAME SEGMENT ESTIMATED TO LEAD AIRCRAFT INSULATION MARKET FROM 2021 TO 2026

4.3 NORTH AMERICA AIRCRAFT INSULATION MARKET, BY PLATFORM

FIGURE 11 FIXED WING SEGMENT TO LEAD AIRCRAFT INSULATION MARKET FROM 2021 TO 2026

4.4 AIRCRAFT INSULATION MARKET, BY COUNTRY

FIGURE 12 JAPAN PROJECTED TO BE FASTEST-GROWING MARKET FROM 2021 TO 2026

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 13 AIRCRAFT INSULATION MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Increase in demand for lightweight insulation materials

TABLE 1 COMMONLY USED PLASTICS IN INSULATION MATERIALS AND THEIR POTENTIAL APPLICATIONS

5.2.1.2 Introduction of advanced acoustic and fire resistant materials resulting in safer operations of aircraft

5.2.1.3 Declining cost of composite materials

FIGURE 14 DECLINE IN COST OF COMPOSITE MATERIALS AND PROPORTIONATE CONSUMPTION OF COMPOSITES (2012-2020)

FIGURE 15 COST OF COMPOSITE AEROSTRUCTURE MATERIALS

5.2.1.4 Increasing demand for military helicopters

TABLE 2 INCREASING MILITARY EXPENDITURE BY EMERGING ECONOMIES, 2011-2018 (USD BILLION)**5.2.2 RESTRAINTS****5.2.2.1 Low shelf life and issues with recycling of composite materials****5.2.3 OPPORTUNITIES****5.2.3.1 Increase in demand for composite materials from General Aviation (GA) and business jets industry to reduce cabin noise****5.2.4 ADVANCED AIR MOBILITY****5.2.5 CHALLENGES****5.2.5.1 Insulation reliability issues in more electric aircraft****5.3 COVID-19 IMPACT SCENARIOS****5.4 IMPACT OF COVID-19 ON THE AIRCRAFT INSULATION MARKET****TABLE 3 COVID-19 IMPACT ON PASSENGER NUMBERS AND PASSENGER REVENUE****5.5 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESS****5.5.1 ENHANCING DRONE TAXI PERFORMANCE USING INSULATION****FIGURE 16 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS****5.6 MARKET ECOSYSTEM****5.6.1 PROMINENT COMPANIES****5.6.2 PRIVATE AND SMALL ENTERPRISES****5.6.3 END USERS****FIGURE 17 AIRCRAFT INSULATION ECOSYSTEM****TABLE 4 AIRCRAFT INSULATION MARKET ECOSYSTEM****5.7 TARIFF REGULATORY LANDSCAPE FOR AEROSPACE INDUSTRY****5.8 TRADE DATA****5.8.1 TRADE ANALYSIS****TABLE 5 COUNTRY-WISE EXPORTS, 2019-2020 (USD THOUSAND)****TABLE 6 COUNTRY-WISE IMPORTS, 2019-2020 (USD THOUSAND)****5.9 VALUE CHAIN ANALYSIS OF AIRCRAFT INSULATION MARKET****FIGURE 18 VALUE CHAIN ANALYSIS****5.10 PORTER'S FIVE FORCES MODEL****5.10.1 AIRCRAFT INSULATION MARKET: PORTER'S FIVE FORCES ANALYSIS****5.10.2 THREAT OF NEW ENTRANTS****5.10.3 THREAT OF SUBSTITUTES****5.10.4 BARGAINING POWER OF SUPPLIERS****5.10.5 BARGAINING POWER OF BUYERS****5.10.6 COMPETITION IN THE INDUSTRY****5.11 TECHNOLOGY ANALYSIS****5.11.1 AEROGEL**

5.12 USE CASE

5.12.1 PARTICLE FOAM DEVELOPED BY BASF

5.13 OPERATIONAL DATA

TABLE 7 NEW COMMERCIAL AIRPLANE DELIVERIES, BY REGION, 2019-2038

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 SUPPLY CHAIN ANALYSIS

FIGURE 19 SUPPLY CHAIN ANALYSIS

6.2.1 RAW MATERIAL SUPPLIERS

6.2.2 AIRCRAFT MANUFACTURERS

6.2.3 END USERS/CUSTOMERS

6.3 PRESENT MATERIAL TRENDS

FIGURE 20 MATERIALS USED IN AIRCRAFT INSULATION

6.3.1 MAGNESIUM AND ALUMINUM OXIDES

6.3.2 CERAMIC MATRIX COMPOSITES

6.3.3 POLYURETHANE AND MELAMINE FOAMS

6.3.4 SOLIMIDE POLYIMIDE FOAMS

6.4 EMERGING INDUSTRY TRENDS

6.4.1 SPIDER SILK FIBER

6.4.2 BIO-COMPOSITES

6.5 INNOVATIONS AND PATENTS REGISTRATIONS, 2011-2019

7 AIRCRAFT INSULATION MARKET, BY TYPE

7.1 INTRODUCTION

FIGURE 21 ACOUSTIC & VIBRATION INSULATION SEGMENT TO COMMAND LARGEST MARKET SIZE DURING FORECAST PERIOD

TABLE 8 AIRCRAFT INSULATION MARKET, BY TYPE, 2018–2026 (USD MILLION)

7.2 THERMAL INSULATION

7.2.1 INCREASING GOVERNMENT REGULATIONS REGARDING AIRCRAFT SAFETY TO DRIVE DEMAND

7.3 ACOUSTIC & VIBRATION INSULATION

7.3.1 RISING DEMAND FOR PASSENGER COMFORT TO DRIVE DEMAND

7.4 ELECTRIC INSULATION

7.4.1 INCREASING DEMAND FOR MORE ELECTRIC AIRCRAFT TO DRIVE THE SEGMENT

8 AIRCRAFT INSULATION MARKET, BY MATERIAL

8.1 INTRODUCTION

FIGURE 22 FOAMED PLASTICS SEGMENT TO COMMAND LARGEST MARKET SIZE DURING FORECAST PERIOD

TABLE 9 AIRCRAFT INSULATION MARKET, BY MATERIAL, 2018–2026 (USD MILLION)

8.2 FOAMED PLASTICS

8.2.1 INCREASING USE OF FOAMED PLASTICS FOR AIRCRAFT CABIN INTERIORS TO DRIVE DEMAND

8.3 FIBERGLASS

8.3.1 GROWING USE OF FIBERGLASS TO REDUCE AIRCRAFT WEIGHT TO DRIVE DEMAND

8.4 MINERAL WOOL

8.4.1 INCREASING DEMAND FOR THERMAL INSULATION TO DRIVE THE SEGMENT

8.5 CERAMIC-BASED MATERIALS

8.5.1 INCREASING AIRCRAFT MANUFACTURING TO DRIVE THE SEGMENT

8.6 OTHERS

8.6.1 ABILITY TO ABSORB EXTREME HEAT BY COMPOSITE MATERIALS TO DRIVE DEMAND

9 AIRCRAFT INSULATION MARKET, BY APPLICATION

9.1 INTRODUCTION

FIGURE 23 AIRFRAME SEGMENT TO COMMAND LARGEST MARKET SIZE DURING FORECAST PERIOD

TABLE 10 AIRCRAFT INSULATION MARKET, BY APPLICATION, 2018–2026 (USD MILLION)

9.2 AIRFRAME

9.2.1 FAA REGULATIONS REGARDING MATERIALS USED FOR INSULATION IN AIRCRAFT AIRFRAME TO DRIVE DEMAND

9.2.2 AEROSTRUCTURE

9.2.2.1 Growing use of lightweight materials to drive the segment

9.2.3 CABIN INTERIOR

9.2.3.1 Growing demand for passenger comfort to drive the segment

9.2.4 AIRCRAFT SYSTEMS

9.2.4.1 Adoption of IFE systems to offer great travelling experience to passengers to drive demand

9.2.5 LANDING GEAR

9.2.5.1 Advanced products offered by companies such as DuPont to drive the segment

TABLE 11 AIRCRAFT INSULATION MARKET, BY AIRFRAME, 2018–2026 (USD MILLION)

9.3 PROPULSION SYSTEM

9.3.1 INCREASING GOVERNMENT REGULATIONS REGARDING AIRCRAFT SAFETY TO DRIVE DEMAND

10 AIRCRAFT INSULATION MARKET, BY PLATFORM

10.1 INTRODUCTION

FIGURE 24 FIXED WING SEGMENT TO COMMAND LARGEST MARKET SIZE DURING FORECAST PERIOD

TABLE 12 AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

10.2 FIXED WING

TABLE 13 AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

10.2.1 COMMERCIAL AVIATION

TABLE 14 FIXED WING: COMMERCIAL AVIATION AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

10.2.1.1 Narrow body aircraft

10.2.1.1.1 Growth in air passenger traffic to drive demand

FIGURE 25 NARROW BODY AIRCRAFT DELIVERIES, BY YEAR

10.2.1.2 Wide body aircraft

10.2.1.2.1 Development of more electric aircraft to fuel segment growth

FIGURE 26 WIDE BODY AIRCRAFT DELIVERIES, 2019 TO 2021 (Q1)

10.2.1.3 Regional transport

10.2.1.3.1 Increasing demand for regional transport aircraft in the US and India to drive the segment

10.2.2 BUSINESS & GENERAL AVIATION

TABLE 15 FIXED WING: BUSINESS & GENERAL AVIATION AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

10.2.2.1 Business jets

10.2.2.1.1 Increase in private players opting for business jets

10.2.2.2 Light aircraft

10.2.2.2.1 Light aircraft are used for person or freight transportation and sightseeing

10.2.3 MILITARY AVIATION

TABLE 16 FIXED WING: MILITARY AVIATION AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)**10.2.3.1 Fighter aircraft****10.2.3.1.1 Rising concerns over border tensions to drive demand****10.2.3.2 Transport aircraft****10.2.3.2.1 Increasing use of transport aircraft in military operations to drive demand****10.2.3.3 Special mission aircraft****10.2.3.3.1 Rising defense spending and territorial disputes to drive demand****10.3 ROTARY WING****TABLE 17 ROTARY WING AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)****10.3.1 CIVIL HELICOPTERS****10.3.1.1 High maneuverability and ability to climb high altitudes increasing usage for multiple purposes****10.3.2 MILITARY HELICOPTERS****10.3.2.1 High military spending of China and India to boost growth****10.4 UNMANNED AERIAL VEHICLES****10.4.1 ADOPTION OF UAVS BY THE ARMED FORCES OF THE US AND CHINA TO FUEL SEGMENT GROWTH****11 AIRCRAFT INSULATION MARKET, BY REGION****11.1 INTRODUCTION****FIGURE 27 AIRCRAFT INSULATION MARKET: REGIONAL SNAPSHOT****11.2 IMPACT OF COVID-19****FIGURE 28 IMPACT OF COVID-19 ON AIRCRAFT INSULATION MARKET****TABLE 18 AIRCRAFT INSULATION MARKET, BY REGION, 2018–2026 (USD MILLION)****TABLE 19 BY TYPE, AIRCRAFT INSULATION MARKET SIZE, 2018-2026 (USD MILLION)****TABLE 20 BY MATERIAL, AIRCRAFT INSULATION MARKET SIZE, 2018–2026 (USD MILLION)****TABLE 21 BY APPLICATION, AIRCRAFT INSULATION MARKET SIZE, 2018–2026 (USD MILLION)****TABLE 22 BY AIRFRAME, AIRCRAFT INSULATION MARKET SIZE, 2018–2026 (USD MILLION)****TABLE 23 BY PLATFORM, AIRCRAFT INSULATION MARKET SIZE, 2018–2026 (USD MILLION)****TABLE 24 BY FIXED WING, AIRCRAFT INSULATION MARKET SIZE, 2018–2026**

(USD MILLION)

TABLE 25 BY COMMERCIAL AVIATION, AIRCRAFT INSULATION MARKET SIZE, 2018–2026 (USD MILLION)

TABLE 26 BY BUSINESS & GENERAL AVIATION, AIRCRAFT INSULATION MARKET SIZE, 2018–2026 (USD MILLION)

TABLE 27 BY MILITARY AVIATION, AIRCRAFT INSULATION MARKET SIZE, 2018–2026 (USD MILLION)

TABLE 28 BY ROTARY WING, AIRCRAFT INSULATION MARKET SIZE, 2018–2026 (USD MILLION)

11.3 NORTH AMERICA

11.3.1 IMPACT OF COVID-19 ON NORTH AMERICA

11.3.2 PESTLE ANALYSIS: NORTH AMERICA

FIGURE 29 NORTH AMERICA: AIRCRAFT INSULATION MARKET SNAPSHOT

TABLE 29 NORTH AMERICA: AIRCRAFT INSULATION MARKET, BY COUNTRY, 2018–2026 (USD MILLION)

TABLE 30 NORTH AMERICA: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

TABLE 31 NORTH AMERICA: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

TABLE 32 NORTH AMERICA: AIRCRAFT INSULATION MARKET, BY COMMERCIAL AVIATION, 2018–2026 (USD MILLION)

TABLE 33 NORTH AMERICA: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL AVIATION, 2018–2026 (USD MILLION)

TABLE 34 NORTH AMERICA: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION, 2018–2026 (USD MILLION)

TABLE 35 NORTH AMERICA: AIRCRAFT INSULATION MARKET, BY ROTARY WING, 2018–2026 (USD MILLION)

11.3.3 US

11.3.3.1 Growing UAV market to drive the aircraft insulation market

TABLE 36 US: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

TABLE 37 US: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

TABLE 38 US: AIRCRAFT INSULATION MARKET, BY COMMERCIAL AVIATION, 2018–2026 (USD MILLION)

TABLE 39 US: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL AVIATION, 2018–2026 (USD MILLION)

TABLE 40 US: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION, 2018–2026 (USD MILLION)

TABLE 41 US: AIRCRAFT INSULATION MARKET, BY ROTARY WING, 2018–2026
(USD MILLION)

11.3.4 CANADA

11.3.4.1 Aircraft modernization programs to drive the market

TABLE 42 CANADA: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026
(USD MILLION)

TABLE 43 CANADA: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026
(USD MILLION)

TABLE 44 CANADA: AIRCRAFT INSULATION MARKET, BY COMMERCIAL
AVIATION, 2018–2026 (USD MILLION)

TABLE 45 CANADA: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL
AVIATION, 2018–2026 (USD MILLION)

TABLE 46 CANADA: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION,
2018–2026 (USD MILLION)

11.4 EUROPE

11.4.1 IMPACT OF COVID-19 ON EUROPE

11.4.2 PESTLE ANALYSIS: EUROPE

FIGURE 30 EUROPE: AIRCRAFT INSULATION MARKET SNAPSHOT

TABLE 47 EUROPE: AIRCRAFT INSULATION MARKET, BY COUNTRY, 2018–2026
(USD MILLION)

TABLE 48 EUROPE: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026
(USD MILLION)

TABLE 49 EUROPE: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026
(USD MILLION)

TABLE 50 EUROPE: AIRCRAFT INSULATION MARKET, BY COMMERCIAL
AVIATION, 2018–2026 (USD MILLION)

TABLE 51 EUROPE: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL
AVIATION, 2018–2026 (USD MILLION)

TABLE 52 EUROPE: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION,
2018–2026 (USD MILLION)

TABLE 53 EUROPE: AIRCRAFT INSULATION MARKET, BY ROTARY WING,
2018–2026 (USD MILLION)

11.4.3 ITALY

11.4.3.1 Aviation industry growing in air freight and passenger volume

TABLE 54 ITALY: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026
(USD MILLION)

TABLE 55 ITALY: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026
(USD MILLION)

TABLE 56 ITALY: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL

AVIATION, 2018–2026 (USD MILLION)

TABLE 57 ITALY: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION, 2018–2026 (USD MILLION)

TABLE 58 ITALY: AIRCRAFT INSULATION MARKET, BY ROTARY WING, 2018–2026 (USD MILLION)

11.4.4 UK

11.4.4.1 Technological advancements in air travel to drive the market

TABLE 59 UK: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

TABLE 60 UK: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

TABLE 61 UK: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION, 2018–2026 (USD MILLION)

11.4.5 GERMANY

11.4.5.1 Rising investments in air travel and aircraft development to drive the market

TABLE 62 GERMANY: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

TABLE 63 GERMANY: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

TABLE 64 GERMANY: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL AVIATION, 2018–2026 (USD MILLION)

TABLE 65 GERMANY: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION, 2018–2026 (USD MILLION)

11.4.6 FRANCE

11.4.6.1 Significant investments in aerospace to drive the market

TABLE 66 FRANCE: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

TABLE 67 FRANCE: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

TABLE 68 FRANCE: AIRCRAFT INSULATION MARKET, BY COMMERCIAL AVIATION, 2018–2026 (USD MILLION)

TABLE 69 FRANCE: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL AVIATION, 2018–2026 (USD MILLION)

TABLE 70 FRANCE: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION, 2018–2026 (USD MILLION)

TABLE 71 FRANCE: AIRCRAFT INSULATION MARKET, BY ROTARY WING, 2018–2026 (USD MILLION)

11.4.7 RUSSIA

11.4.7.1 Increasing manufacturing of military aircraft to boost market growth

TABLE 72 RUSSIA: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026
(USD MILLION)

TABLE 73 RUSSIA: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026
(USD MILLION)

TABLE 74 RUSSIA: AIRCRAFT INSULATION MARKET, BY COMMERCIAL
AVIATION, 2018–2026 (USD MILLION)

TABLE 75 RUSSIA: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL
AVIATION, 2018–2026 (USD MILLION)

TABLE 76 RUSSIA: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION,
2018–2026 (USD MILLION)

TABLE 77 RUSSIA: AIRCRAFT INSULATION MARKET, BY ROTARY WING,
2018–2026 (USD MILLION)

11.4.8 REST OF EUROPE

TABLE 78 REST OF EUROPE: AIRCRAFT INSULATION MARKET, BY PLATFORM,
2018–2026 (USD MILLION)

TABLE 79 REST OF EUROPE: AIRCRAFT INSULATION MARKET, BY FIXED WING,
2018–2026 (USD MILLION)

TABLE 80 REST OF EUROPE: AIRCRAFT INSULATION MARKET, BY BUSINESS &
GENERAL AVIATION, 2018–2026 (USD MILLION)

TABLE 81 REST OF EUROPE: AIRCRAFT INSULATION MARKET, BY MILITARY
AVIATION, 2018–2026 (USD MILLION)

TABLE 82 REST OF EUROPE: AIRCRAFT INSULATION MARKET, BY ROTARY
WING, 2018–2026 (USD MILLION)

11.5 ASIA PACIFIC

11.5.1 IMPACT OF COVID-19 ON ASIA PACIFIC

11.5.2 PESTLE ANALYSIS: ASIA PACIFIC

FIGURE 31 ASIA PACIFIC: AIRCRAFT INSULATION MARKET SNAPSHOT

TABLE 83 ASIA PACIFIC: AIRCRAFT INSULATION MARKET, BY COUNTRY,
2018–2026 (USD MILLION)

TABLE 84 ASIA PACIFIC: AIRCRAFT INSULATION MARKET, BY PLATFORM,
2018–2026 (USD MILLION)

TABLE 85 ASIA PACIFIC: AIRCRAFT INSULATION MARKET, BY FIXED WING,
2018–2026 (USD MILLION)

TABLE 86 ASIA PACIFIC: AIRCRAFT INSULATION MARKET, BY COMMERCIAL
AVIATION, 2018–2026 (USD MILLION)

TABLE 87 ASIA PACIFIC: AIRCRAFT INSULATION MARKET, BY BUSINESS &
GENERAL AVIATION, 2018–2026 (USD MILLION)

TABLE 88 ASIA PACIFIC: AIRCRAFT INSULATION MARKET, BY MILITARY
AVIATION, 2018–2026 (USD MILLION)

TABLE 89 ASIA PACIFIC: AIRCRAFT INSULATION MARKET, BY ROTARY WING, 2018–2026 (USD MILLION)

11.5.3 CHINA

11.5.3.1 Increasing demand for new aircraft to drive the market

TABLE 90 CHINA: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

TABLE 91 CHINA: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

TABLE 92 CHINA: AIRCRAFT INSULATION MARKET, BY COMMERCIAL AVIATION, 2018–2026 (USD MILLION)

TABLE 93 CHINA: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL AVIATION, 2018–2026 (USD MILLION)

TABLE 94 CHINA: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION, 2018–2026 (USD MILLION)

11.5.4 INDIA

11.5.4.1 Development of airport infrastructure to drive the market

TABLE 95 INDIA: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

TABLE 96 INDIA: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

TABLE 97 INDIA: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL AVIATION, 2018–2026 (USD MILLION)

TABLE 98 INDIA: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION, 2018–2026 (USD MILLION)

TABLE 99 INDIA: AIRCRAFT INSULATION MARKET, BY ROTARY WING, 2018–2026 (USD MILLION)

11.5.5 JAPAN

11.5.5.1 Increasing in-house development of aircraft to drive the market

TABLE 100 JAPAN: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

TABLE 101 JAPAN: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

TABLE 102 JAPAN: AIRCRAFT INSULATION MARKET, BY COMMERCIAL AVIATION, 2018–2026 (USD MILLION)

TABLE 103 JAPAN: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION, 2018–2026 (USD MILLION)

TABLE 104 JAPAN: AIRCRAFT INSULATION MARKET, BY ROTARY WING, 2018–2026 (USD MILLION)

11.5.6 REST OF ASIA PACIFIC

TABLE 105 REST OF ASIA PACIFIC: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

TABLE 106 REST OF ASIA PACIFIC: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

TABLE 107 REST OF ASIA PACIFIC: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL AVIATION, 2018–2026 (USD MILLION)

11.6 REST OF THE WORLD

11.6.1 IMPACT OF COVID-19 ON REST OF THE WORLD

11.6.2 PESTLE ANALYSIS: REST OF THE WORLD

FIGURE 32 REST OF THE WORLD: AIRCRAFT INSULATION MARKET SNAPSHOT

TABLE 108 REST OF THE WORLD: AIRCRAFT INSULATION MARKET, BY COUNTRY, 2018–2026 (USD MILLION)

TABLE 109 REST OF THE WORLD: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

TABLE 110 REST OF THE WORLD: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

TABLE 111 REST OF THE WORLD: AIRCRAFT INSULATION MARKET, BY COMMERCIAL AVIATION, 2018–2026 (USD MILLION)

TABLE 112 REST OF THE WORLD: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL AVIATION, 2018–2026 (USD MILLION)

TABLE 113 REST OF THE WORLD: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION, 2018–2026 (USD MILLION)

TABLE 114 REST OF THE WORLD: AIRCRAFT INSULATION MARKET, BY ROTARY WING, 2018–2026 (USD MILLION)

11.6.3 BRAZIL

11.6.3.1 Growing investment in alternative sources of energy along the aerospace industry to drive the market

TABLE 115 BRAZIL: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026 (USD MILLION)

TABLE 116 BRAZIL: AIRCRAFT INSULATION MARKET, BY FIXED WING, 2018–2026 (USD MILLION)

TABLE 117 BRAZIL: AIRCRAFT INSULATION MARKET, BY COMMERCIAL AVIATION, 2018–2026 (USD MILLION)

TABLE 118 BRAZIL: AIRCRAFT INSULATION MARKET, BY BUSINESS & GENERAL AVIATION, 2018–2026 (USD MILLION)

TABLE 119 BRAZIL: AIRCRAFT INSULATION MARKET, BY MILITARY AVIATION, 2018–2026 (USD MILLION)

11.6.4 TURKEY

11.6.4.1 Growing drone industry to drive the market

TABLE 120 TURKEY: AIRCRAFT INSULATION MARKET, BY PLATFORM, 2018–2026
(USD MILLION)

TABLE 121 TURKEY: AIRCRAFT INSULATION MARKET, BY ROTARY WING,
2018–2026 (USD MILLION)

11.6.5 SOUTH AFRICA

11.6.5.1 Growing use of UAVs for different applications to drive the market

TABLE 122 SOUTH AFRICA: AIRCRAFT INSULATION MARKET, BY PLATFORM,
2018–2026 (USD MILLION)

12 COMPETITIVE LANDSCAPE

12.1 INTRODUCTION

TABLE 123 KEY DEVELOPMENTS BY LEADING PLAYERS IN AIRCRAFT
INSULATION MARKET BETWEEN 2017 AND 2019

12.2 MARKET SHARE ANALYSIS OF LEADING PLAYERS 2020

TABLE 124 DEGREE OF COMPETITION

FIGURE 33 COLLECTIVE REVENUE SHARE OF TOP 5 PLAYERS

12.3 RANK ANALYSIS, 2020

FIGURE 34 RANK ANALYSIS, 2020

TABLE 125 COMPANY REGION FOOTPRINT

TABLE 126 COMPANY TYPE FOOTPRINT

TABLE 127 COMPANY APPLICATION AREA FOOTPRINT

12.4 COMPETITIVE EVALUATION QUADRANT

12.4.1 STAR

12.4.2 PERVASIVE

12.4.3 EMERGING LEADER

12.4.4 PARTICIPANT

FIGURE 35 AIRCRAFT INSULATION MARKET COMPETITIVE LEADERSHIP
MAPPING, 2021

FIGURE 36 AIRCRAFT INSULATION MARKET COMPETITIVE LEADERSHIP
MAPPING

(START UP MATRIX)

12.4.5 PROGRESSIVE COMPANIES

12.4.6 RESPONSIVE COMPANIES

12.4.7 STARTING BLOCKS

12.4.8 DYNAMIC COMPANIES

12.5 COMPETITIVE SCENARIO

12.5.1 NEW PRODUCT LAUNCHES

TABLE 128 NEW PRODUCT LAUNCHES, AUGUST 2018–AUGUST 2021

12.5.2 DEALS

TABLE 129 DEALS, AUGUST 2018– AUGUST 2021

12.5.3 ACQUISTIONS

TABLE 130 ACQUISTIONS, AUGUST 2018–AUGUST 2021

13 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) *

13.1 INTRODUCTION

13.2 KEY PLAYERS

13.2.1 DUPONT

TABLE 131 DUPONT: BUSINESS OVERVIEW

FIGURE 37 DUPONT: COMPANY SNAPSHOT

13.2.2 TRANSDIGM GROUP, INC.

TABLE 132 TRANSDIGM GROUP, INC.: BUSINESS OVERVIEW

FIGURE 38 TRANSDIGM GROUP, INC.: COMPANY SNAPSHOT

TABLE 133 TRANSDIGM GROUP, INC.: ACQUISITION

13.2.3 TRIUMPH GROUP, INC.

TABLE 134 TRIUMPH GROUP, INC.: BUSINESS OVERVIEW

FIGURE 39 TRIUMPH GROUP, INC.: COMPANY SNAPSHOT

TABLE 135 TRIUMPH GROUP, INC.: AGREEMENT

13.2.4 ROGERS CORPORATION

TABLE 136 ROGERS CORPORATION: BUSINESS OVERVIEW

FIGURE 40 ROGERS CORPORATION: COMPANY SNAPSHOT

13.2.5 MORGAN ADVANCED MATERIALS

TABLE 137 MORGAN ADVANCED MATERIALS: BUSINESS OVERVIEW

FIGURE 41 MORGAN ADVANCED MATERIALS: COMPANY SNAPSHOT

13.2.6 BASF SE

TABLE 138 BASF SE: BUSINESS OVERVIEW

FIGURE 42 BASF SE: COMPANY SNAPSHOT

TABLE 139 BASF SE.: NEW PRODUCT DEVELOPMENT

13.2.7 SAFRAN GROUP

TABLE 140 SAFRAN GROUP: BUSINESS OVERVIEW

FIGURE 43 SAFRAN GROUP: COMPANY SNAPSHOT

TABLE 141 SAFRAN GROUP: ACQUISITION

13.2.8 ZOTEFOAMS

TABLE 142 ZOTEFOAMS: BUSINESS OVERVIEW

FIGURE 44 ZOTEFOAMS: COMPANY SNAPSHOT

13.2.9 EVONIK INDUSTRIES

TABLE 143 EVONIK INDUSTRIES: BUSINESS OVERVIEW

FIGURE 45 EVONIK INDUSTRIES: COMPANY SNAPSHOT

13.2.10 3M

TABLE 144 3M: BUSINESS OVERVIEW

FIGURE 46 3M: COMPANY SNAPSHOT

TABLE 145 3M: ACQUISITION

13.2.11 ARMACELL

TABLE 146 ARMACELL: BUSINESS OVERVIEW

FIGURE 47 ARMACEL: COMPANY SNAPSHOT

13.3 OTHER PLAYERS

13.3.1 DURACOTE CORPORATION

13.3.2 POLYMER TECHNOLOGIES INC.

13.3.3 DUNMORE CORPORATION

13.3.4 INSULTECH, LLC.

13.3.5 ACM AIRCRAFT CABIN MODIFICATION GMBH

13.3.6 AEROPAIR LTD

13.3.7 ZEUS INDUSTRIAL PRODUCTS, INC.

13.3.8 CONCEPT GROUP LLC

13.3.9 NORPLEX-MICARTA

13.3.10 XTO, INC.

13.3.11 DEVICE TECHNOLOGIES, INC.

13.3.12 FRALOCK

13.3.13 HUTCHINSON

13.3.14 JOHNS MANVILLE

*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

14 APPENDIX

14.1 DISCUSSION GUIDE

14.2 KNOWLEDGE STORE: MARKETSSANDMARKETS' SUBSCRIPTION PORTAL

14.3 AVAILABLE CUSTOMIZATION

14.4 RELATED REPORTS

14.5 AUTHOR DETAILS

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