

Europe 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 Europe is expected to grow from US\$ 1,587.97 million in 2022 to US\$ 2,101.56 million by 2028. It is estimated to grow at a CAGR of 4.8% from 2022 to 2028.

Growing Demand for Lightweight Insulation Materials

Rising for fuel-efficient engines with corrosion-resistant insulation properties is increasing the demand for lightweight insulation materials. Demand for aerospace insulation is also increasing with the growth in manufacturing of aircraft, increase per capita income, and increasing investment is supporting the growth of aerospace insulation. Further, growing initiatives to connect peripheral cities to major aviation hubs, and growing demand for aircraft from the commercial, military and defense is fueling growth to boost the demand for lightweight insulation material. Furthermore, the growing attention to environmental pollution and the growing need to improve fuel efficiency fuel the sector's growth. Increasing technological advances to reduce manufacturing costs and improve fuel efficiency are expected to provide huge growth opportunities for the industry. Further, there is growth in the use of lightweight composite materials to produce aircraft, as these materials are made from which includes concrete, fiber reinforced polymer, metal composites, and ceramic composites, these materials are combined to make lightweight composite materials which has high strength, flexibility and are lightweight compared to aluminum or steel materials used in aircraft production. In addition, these materials are corrosion resistant, which means that the shell of an aircraft structure remains

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corrosion resistant in all weather conditions, and an increase in investments in research and development of new materials in the aerospace insulation market led to the development of advanced composite materials, such as Polymer Matrix Composites (PMC), Ceramic Matrix Composites (CMC) and Metal Matrix Composites (MMC). These composites have heat absorbing ability, lower weight, noise reduction, vibration absorption, and others. All these advances in aircraft isolation technology are driving the market growth.

Market Overview

The Europe aerospace insulation market is categorized into Germany, France, Italy, the UK, Russia, and the Rest of Europe. This regional market is witnessing high growth due to an increase in demand for lightweight materials, the 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. Moreover, Europe is a significant regional market owing to the presence of major manufacturers involved in commercial, military, and business jets. The growing use of aerospace insulation in Germany, France, the UK, and other European countries in airplane manufacturing is expected to enhance the growth of the regional market over the forecast period. However, European Aviation Safety Agency (EASA) imposes several standards, procedures, and norms to improve flight safety which can hamper the growth of this market in this region. The French aerospace industry is a significant industrial sector in the region. The aerospace industry comprises over 600 small and medium-sized enterprises such as Leonardo, UTC aerospace systems, among others in the region. Additionally, the UK government plans to invest 2.4% of the GDP in aerospace R&D by 2027 to improve the future of mobility and transition to clean growth.

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

Europe Aerospace Insulation Market Segmentation

The Europe 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 Europe 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 Europe 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 Germany, France, Italy, the UK, Russia, and Rest of Europe. Germany 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.

Table of Contents:

TABLE OF CONTENTS

1. Introduction
 - 1.1 Study Scope
 - 1.2 The Insight Partners Research Report Guidance
 - 1.3 Market Segmentation
 - 1.3.1 Europe Aerospace Insulation Market, by Product
 - 1.3.2 Europe Aerospace Insulation Market, by Insulation Material
 - 1.3.3 Europe Aerospace Insulation Market, by Aircraft

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- 1.3.4 Europe Aerospace Insulation Market, by Application
- 1.3.5 Europe Aerospace Insulation Market, by Country
- 2. Key Takeaways
- 3. Research Methodology
 - 3.1 Scope of the Study
 - 3.2 Research Methodology
 - 3.2.1 Data Collection:
 - 3.2.2 Primary Interviews:
 - 3.2.3 Hypothesis formulation:
 - 3.2.4 Macro-economic factor analysis:
 - 3.2.5 Developing base number:
 - 3.2.6 Data Triangulation:
 - 3.2.7 Country level data:
- 4. Europe Aerospace Insulation Market Landscape
 - 4.1 Market Overview
 - 4.2 Porter's Five Forces Analysis
 - 4.2.1 Bargaining Power of Suppliers
 - 4.2.2 Bargaining Power of Buyers
 - 4.2.3 Threat of New Entrants
 - 4.2.4 Competitive Rivalry
 - 4.2.5 Threat of Substitutes
 - 4.3 Ecosystem Analysis
 - 4.3.1 Raw Material Suppliers:
 - 4.3.2 Manufacturers:
 - 4.3.3 Distributors/Suppliers:
 - 4.3.4 End Users:
 - 4.4 Expert Opinion
- 5. Europe Aerospace Insulation Market - Key Market Dynamics
 - 5.1 Market Drivers
 - 5.1.1 Growing Demand for Lightweight Insulation Materials
 - 5.1.2 Broadening Aircraft Manufacturing Sector and Increase in Fleet Replacement
 - 5.2 Market Restraints
 - 5.2.1 Limited Recyclability of Insulation Materials
 - 5.3 Market Future Trends
 - 5.3.1 Heighten Globalization and Increased International Trade
 - 5.4 Impact Analysis
- 6. Europe Aerospace Insulation - Market Analysis
 - 6.1 Overview
 - 6.2 Europe Aerospace Insulation Market -Revenue and Forecast to 2028 (US\$ Million)
- 7. Europe Aerospace Insulation Market Analysis - by Product
 - 7.1 Overview
 - 7.2 Europe Aerospace Insulation Market, By Product
 - 7.3 Thermal Insulation
 - 7.3.1 Overview
 - 7.3.2 Thermal Insulation: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
 - 7.4 Acoustic Insulation
 - 7.4.1 Overview

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- 7.4.2 Acoustic Insulation: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
- 7.5 Electric Insulation
 - 7.5.1 Overview
 - 7.5.2 Electric Insulation: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
- 7.6 Vibration Insulation
 - 7.6.1 Overview
 - 7.6.2 Vibration Insulation: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
- 8. Europe Aerospace Insulation Market Analysis - by Insulation Material
 - 8.1 Overview
 - 8.2 Europe Aerospace Insulation Market, By Insulation Material (2021 and 2028)
 - 8.3 Mineral Wool
 - 8.3.1 Overview
 - 8.3.2 Mineral Wool: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
 - 8.4 Ceramic-based Material
 - 8.4.1 Overview
 - 8.4.2 Ceramic-based Material: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
 - 8.5 Foamed Plastics
 - 8.5.1 Overview
 - 8.5.2 Foamed Plastics: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
 - 8.6 Fiberglass and Others
 - 8.6.1 Overview
 - 8.6.2 Fiberglass and Others: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
- 9. Europe Aerospace Insulation Market Analysis - by Aircraft
 - 9.1 Overview
 - 9.2 Europe Aerospace Insulation Market, By Aircraft (2021 and 2028)
 - 9.3 Commercial Aircraft
 - 9.3.1 Overview
 - 9.3.2 Commercial Aircraft: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
 - 9.4 Military Aircraft
 - 9.4.1 Overview
 - 9.4.2 Military Aircraft: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
 - 9.5 Helicopters
 - 9.5.1 Overview
 - 9.5.2 Helicopters: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
- 10. Europe Aerospace Insulation Market Analysis - by Application
 - 10.1 Overview
 - 10.2 Europe Aerospace Insulation Market, By Application (2021 and 2028)
 - 10.3 Engine
 - 10.3.1 Overview
 - 10.3.2 Engine: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
 - 10.4 Airframe
 - 10.4.1 Overview
 - 10.4.2 Airframe: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
- 11. Europe Aerospace Insulation Market - Country Analysis
 - 11.1 Europe Aerospace Insulation Market
 - 11.1.1 Europe: Aerospace Insulation Market, by Key Country
 - 11.1.1.1 Germany: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)

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- 11.1.1.1.1 Germany: Aerospace Insulation Market, By Product
- 11.1.1.1.2 Germany: Aerospace Insulation Market, by Insulation Material
- 11.1.1.1.3 Germany: Aerospace Insulation Market, By Aircraft
- 11.1.1.1.4 Germany: Aerospace Insulation Market, by Application
- 11.1.1.2 France: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
- 11.1.1.2.1 France: Aerospace Insulation Market, By Product
- 11.1.1.2.2 France: Aerospace Insulation Market, by Insulation Material
- 11.1.1.2.3 France: Aerospace Insulation Market, By Aircraft
- 11.1.1.2.4 France: Aerospace Insulation Market, by Application
- 11.1.1.3 Italy: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
- 11.1.1.3.1 Italy: Aerospace Insulation Market, By Product
- 11.1.1.3.2 Italy: Aerospace Insulation Market, by Insulation Material
- 11.1.1.3.3 Italy: Aerospace Insulation Market, By Aircraft
- 11.1.1.3.4 Italy: Aerospace Insulation Market, by Application
- 11.1.1.4 UK: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
- 11.1.1.4.1 UK: Aerospace Insulation Market, By Product
- 11.1.1.4.2 UK: Aerospace Insulation Market, by Insulation Material
- 11.1.1.4.3 UK: Aerospace Insulation Market, By Aircraft
- 11.1.1.4.4 UK: Aerospace Insulation Market, by Application
- 11.1.1.5 Russia: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
- 11.1.1.5.1 Russia: Aerospace Insulation Market, By Product
- 11.1.1.5.2 Russia: Aerospace Insulation Market, by Insulation Material
- 11.1.1.5.3 Russia: Aerospace Insulation Market, By Aircraft
- 11.1.1.5.4 Russia: Aerospace Insulation Market, by Application
- 11.1.1.6 Rest of Europe: Aerospace Insulation Market - Revenue and Forecast to 2028 (US\$ Million)
- 11.1.1.6.1 Rest of Europe: Aerospace Insulation Market, By Product
- 11.1.1.6.2 Rest of Europe: Aerospace Insulation Market, by Insulation Material
- 11.1.1.6.3 Rest of Europe: Aerospace Insulation Market, By Aircraft
- 11.1.1.6.4 Rest of Europe: Aerospace Insulation Market, by Application
- 12. Industry Landscape
- 12.1 Overview
- 12.2 Market Initiative
- 12.3 New Product Development
- 12.4 Merger and Acquisition
- 13. Company Profiles
- 13.1 Duracote Corporation
- 13.1.1 Key Facts
- 13.1.2 Business Description
- 13.1.3 Products and Services
- 13.1.4 Financial Overview
- 13.1.5 SWOT Analysis
- 13.1.6 Key Developments
- 13.2 Rogers Corporation
- 13.2.1 Key Facts
- 13.2.2 Business Description
- 13.2.3 Products and Services
- 13.2.4 Financial Overview

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- 13.2.5 SWOT Analysis
- 13.2.6 Key Developments
- 13.3 DuPont
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
- 13.4 BASF SE
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 3M
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
- 13.6 TransDigm Group Incorporated
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis
 - 13.6.6 Key Developments
- 13.7 Triumph Group, Inc.
 - 13.7.1 Key Facts
 - 13.7.2 Business Description
 - 13.7.3 Products and Services
 - 13.7.4 Financial Overview
 - 13.7.5 SWOT Analysis
 - 13.7.6 Key Developments
- 13.8 Morgan Advanced Materials Plc
 - 13.8.1 Key Facts
 - 13.8.2 Business Description
 - 13.8.3 Products and Services
 - 13.8.4 Financial Overview
 - 13.8.5 SWOT Analysis
 - 13.8.6 Key Developments
- 13.9 Polymer Technologies Inc.
 - 13.9.1 Key Facts
 - 13.9.2 Business Description

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- 13.9.3 Products and Services
- 13.9.4 Financial Overview
- 13.9.5 SWOT Analysis
- 13.9.6 Key Developments
- 14. Appendix
- 14.1 About The Insight Partners
- 14.2 Glossary of Terms

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