

# **Space-qualified Propellant Tank Market - A Global and Regional Analysis: Focus on Platform, End User, Material Type, Manufacturing Process, Propellant Tank and Country - Analysis and Forecast, 2021-2031**

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## **Abstracts**

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Market Report Coverage - Space-qualified Propellant Tank

Market Segmentation

Platform: Satellite, Launch Vehicles

End User: Government and Military, Commercial

Material: Carbon Fiber, Aluminium and Titanium Alloys, Thermoset and Thermoplastic, Nanomaterials, Others

Manufacturing Process: Automated Fiber Placement (ATL/AFP), Compression Molding, Additive Manufacturing, Conventional Manufacturing, Others

Propellant Tank Type: Diaphragm Tanks, Propellant Management Devices, Helium, Nitrogen, and Xenon Tanks, Aluminium Alloy Tanks

Regional Segmentation

North America: U.S., Canada

Europe: Germany, U.K., France, Russia, Rest of Europe

Asia-Pacific: Japan, China, India, Rest-of-Asia-Pacific

Rest-of-the-World: Middle East and Africa, Latin America

### Market Growth Drivers

Rapid Escalation of the Production and Launch of Satellites

Rising Research and Development Activities to Develop Cost-Efficient Propellant Tank for Satellites and Launch Vehicles

### Market Challenges

High Cost Associated with Large Space-qualified Propellant Tank

### Market Opportunities

Growing Developments for Deep Space Exploration Programs

### Key Companies Profiled

Airbus S.A.S, Adam Works, Ariane Group, Busek Co Inc., Cobham Mission System, Infinite Composites Technologies, IHI Aerospace Co., Lockheed Martin Corporation, Microcosm, Inc., Moog Inc., OHB SE, Northrop Grumman Corporation, Nammo AS, Peak Technology, Stelia Aerospace North America Inc.

### How This Report Can Add Value

This exclusive report on space qualified propellant tank market will help you with:

A dedicated section focusing on the futuristic trends adopted by the key players operating in the global space-qualified propellant tank market.

Extensive competitive benchmarking of top 15 players (including OEMs and component providers) offering a holistic view of the global space-qualified propellant tank landscape

Detailed qualitative and quantitative mapping of satellites and launch vehicles from 2020-2031.

Qualitative and quantitative analysis of space-qualified propellant tank at the region and country-level granularity by application and product segments.

**Market by Product: Analysis and Forecast:** The product segment helps the reader in understanding the different types of space-qualified propellant tank and their market potentials globally. Moreover, the study provides the reader a detailed understanding of space-qualified propellant tank with respect to platform type (satellite, launch vehicle), end user (government and military, commercial), material (carbon fiber, aluminum and titanium alloys, thermoset and thermoplastic, nanomaterials, and others), manufacturing process (automated fiber placement, compression molding, additive manufacturing, conventional manufacturing), propellant tank type (diaphragm tanks, propellant management devices, helium, nitrogen, and xenon tanks, and aluminum alloy tanks).

**Market by Application: Analysis and Forecast:** The space qualified propellant tank market by application is majorly driven by end user applications, including government, military, and commercial uses. For instance, in January 2021, Airbus and Thales signed a contract with the European Commission of \$1.79 billion for the development of 12 satellites. Both the companies would provide end-to-end solutions in manufacturing these satellites.

Similarly, in April 2020, Infinite Composite Technologies introduced the first-ever spherical Type V cryotank for storing the cryogenic propellants for launch vehicles and spacecraft such as lunar landers.

### Key Questions Answered in the Report

What are the futuristic trends in this market, and how is the market expected to change over the forecast years, 2021-2031?

What are the key drivers and challenges faced by the companies currently

working in the global space-qualified propellant tank market?

How is the space-qualified propellant tank market expected to grow during the forecast period 2021-2031?

What are the opportunities for the companies to expand their businesses in the global space-qualified propellant tank market?

Which region is expected to lead the global space-qualified propellant tank market by 2031?

What are the key developmental strategies implemented by the key players to sustain in this highly competitive market?

What is the current and future revenue scenario of this market?

What is the competitive scenario of the key players in the global space-qualified propellant tank market?

What are the emerging technologies that the key companies are focusing on to increase their market share?

What are the strengths and weaknesses of the companies that are influencing the growth of the market?

## Space-qualified Propellant Tank

Propellant tanks are used in satellites and launch vehicles for storing liquid fuels. Additionally, a cryogenic rocket propellant tank (cryo-tank) is used for storing fuel or oxidizer of rocket stages. The upcoming space heavy lift launch vehicles demand extremely excessive propellant mass fractions to obtain the designed performance set by the existing metallic tanks. This is driving companies to develop lightweight propellant tanks.

Between 1957 and 2021, many governments and commercial organizations such as Infinite Composite Technologies, Ariane Space, Europe Space Agency (ESA), National Aeronautics and Space Administration (NASA), and Japan Aerospace Exploration Agency (JAXA), started demonstrations for new propellant tank for different satellites

and launch vehicles. Since then, the technology has evolved continually and transformed the entire space industry by developing unique products and systems.

Currently, many space agencies and commercial companies across the globe have been focusing on developing satellite constellations. This is expected to drive the market for the propellant tank system.

### Space-qualified Propellant Tank Industry Overview

The global space-qualified propellant tank market is expected to reach \$3,069.5 million by 2031, with a CAGR of 4.83% during the forecast period 2021-2031. The rapid escalation of the production and launch of satellites is expected to be the major driving factor for the market. In addition, rising demand for building efficient propellant tanks at low cost are key drivers for the growth of the global space-qualified propellant tank market.

### Market Segmentation

#### Space-qualified Propellant Tank Market by Platform

The satellite platform segment is estimated to dominate the global space-qualified propellant tank market due to the rising development of satellite constellations for communication, Earth observation, navigation, and tracking purposes.

#### Space-qualified Propellant Tank Market by End User

The commercial end user segment is estimated to dominate the global space-qualified propellant tank market due to the rising development of small satellite constellations for communication, remote sensing, Earth observation, and navigation by commercial industries.

#### Space-qualified Propellant Tank Market by Material

Carbon Fiber material is the most prominent material contributing to the global space-qualified propellant tank market. The space industry has been using carbon fiber composites for manufacturing satellite structures and launch vehicle structures. For instance, for NASA's Artemis Program Space Launch System (SLS), a heavy launch vehicle, rocket parts were manufactured using the automated fiber placement (AFP) machine. These rocket parts comprised sandwich structures of more than eight meters

in diameter made of carbon fiber skins with an aluminum honeycomb core.

### Space-qualified Propellant Tank Market by Manufacturing Process

Space will continue to be a major source of applications for compression molded composite parts. Compression molding using BMC is an enabling technology for the fabrication of complex composite parts for aerostructures, space, and satellites.

### Space-qualified Propellant Tank Market by Propellant Tank Type

With the growing number of space-qualified propellant tanks, it is anticipated that the requirement for diaphragm tanks will grow in the upcoming years. The tanks are light in weight, reliable, and manufactured at low cost, which has proliferated their use in the aerospace sector over the years. The tanks are replacing titanium propellant tanks that were previously used for spacecraft application due to low cost and simple design.

### Space-qualified Propellant Tank Market by Region

North America is expected to account for the highest share of the global space-qualified propellant tank market, owing to a significant number of companies based in the region, increased spending by government and commercial organizations such as the National Aeronautics and Space Administration (NASA), Lockheed Martin, Ariane Group, Northrop Grumman, Microcosm, and Stelia Aerospace North America for space-qualified propellant tank.

### Key Market Players and Competition Synopsis

Some of the key players operating in the market include Airbus S.A.S, Adam Works, Ariane Group, CU Aerospace, Northrop Grumman Corporation, Nammo AS, OHB SE, Peak Technology, and Stelia Aerospace North America Inc., among others.

The companies profiled in the report have been selected post-in-depth interviews with experts and understanding details around companies such as product portfolios, annual revenues, market penetration, research and development initiatives, and domestic and international presence in the space-qualified propellant tank market. Accordingly, a structured approach has been followed, which includes segmenting the pool of players under three mutually exclusive and collectively exhaustive parts, holding a 100% pie of the market, as mentioned below:

Top Segment Players - These are leading original equipment manufacturers (OEMs), covering ~90% of the presence in the market.

Other Segment Players – These are component providers, covering ~10% of the presence in the market.

However, if a company is not part of the above pool, it has been well represented across different sections of the report (wherever applicable).

## Contents

### 1 MARKETS

#### 1.1 Industry Outlook

##### 1.1.1 Space-qualified Propellant Tank Market: Overview

#### 1.2 Current and Emerging Technological Trends

##### 1.2.1 Air-Scooping Electric Propulsion

##### 1.2.2 Reusable Propulsion System

#### 1.3 Space-qualified Propellant Tank Manufacturers and Standards

#### 1.4 New Space Business Scenario: An Emerging Opportunity for the Space-qualified Propellant Tank Market

##### 1.4.1 Growth in Small Satellite Market

##### 1.4.2 Growth in Small Launch Vehicle Market

#### 1.5 Ongoing and Upcoming Projects

##### 1.5.1 Eurostar NEO/JUICE Propellant Tank Demonstration

##### 1.5.2 ASTRIS Mission

##### 1.5.3 Composite Cryotank Technologies and Demonstration (CCTD)

#### 1.6 Supply Chain Analysis

#### 1.7 Business Dynamics

##### 1.7.1 Business Drivers

###### 1.7.1.1 Rapid Escalation of the Production and Launch of Satellites

###### 1.7.1.2 Rising Research and Development Activities to Develop Cost-Efficient

##### Propellant Tank for Satellites and Launch Vehicles

##### 1.7.2 Business Challenges

###### 1.7.2.1 High Cost Associated with Large Space-qualified Propellant Tank

##### 1.7.3 Business Opportunities

###### 1.7.3.1 Growing Developments for Deep Space Exploration Programs

#### 1.8 Business Strategies

##### 1.8.1 Partnerships, Collaborations, Agreements, and Contracts

##### 1.8.2 Mergers and Acquisitions

##### 1.8.3 Other Developments

### 2 APPLICATION

#### 2.1 Global Space-qualified Propellant Tank Market (by Platform)

##### 2.1.1 Market Overview

###### 2.1.1.1 Demand Analysis of Space-qualified Propellant Tank Market (by Platform)

##### 2.1.2 Satellite



- 2.1.2.1 Nano and Microsatellite (0-200 kg)
- 2.1.2.2 Small Satellite (201-1,200 kg)
- 2.1.2.3 Medium Satellite (1,201-2,200 kg)
- 2.1.2.4 Large Satellite (Above 2,201 kg)
- 2.1.3 Launch Vehicles
  - 2.1.3.1 Small Lift Launch Vehicle (0-2,200 kg)
  - 2.1.3.2 Medium and Heavy Lift Launch Vehicle (2,201 kg and Above)
- 2.2 Global Space-qualified Propellant Tank Market (by End User)
  - 2.2.1 Market Overview
    - 2.2.1.1 Demand Analysis of Space-qualified Propellant Tank Market (by End User)
  - 2.2.2 Government and Military
  - 2.2.3 Commercial

### **3 PRODUCTS**

- 3.1 Global Space-qualified Propellant Tank Market (by Material)
  - 3.1.1 Market Overview
    - 3.1.1.1 Demand Analysis of Space-qualified Propellant Tank Market (by Material)
  - 3.1.2 Carbon Fiber
  - 3.1.3 Aluminium and Titanium Alloys
  - 3.1.4 Thermoset and Thermoplastic
  - 3.1.5 Nanomaterials
  - 3.1.6 Others
- 3.2 Global Space-qualified Propellant Tank Market (by Manufacturing Process)
  - 3.2.1 Market Overview
    - 3.2.1.1 Demand Analysis of Space-qualified Propellant Tank Market (by Manufacturing Process)
  - 3.2.2 Automated Fiber Placement (ATL/AFP)
  - 3.2.3 Compression Molding
  - 3.2.4 Additive Manufacturing
  - 3.2.5 Conventional Manufacturing
  - 3.2.6 Others
- 3.3 Global Space-qualified Propellant Tank Market (by Propellant Tank Type)
  - 3.3.1 Market Overview
    - 3.3.1.1 Demand Analysis of Space-qualified Propellant Tank Market (by Propellant Tank Type)
  - 3.3.2 Diaphragm Tanks
  - 3.3.3 Propellant Management Devices
  - 3.3.4 Helium, Nitrogen, and Xenon Tanks

### 3.3.5 Aluminium Alloy Tanks

## 4 REGION

### 4.1 Global Space-qualified Propellant Tank Market (by Region)

#### 4.2 North America

##### 4.2.1 Market

###### 4.2.1.1 Key Manufacturers and Suppliers in North America

###### 4.2.1.2 Business Drivers

###### 4.2.1.3 Business Challenges

##### 4.2.2 Application

###### 4.2.2.1 North America Space-qualified Propellant Tank Market (by Platform)

##### 4.2.3 Product

###### 4.2.3.1 North America Space-qualified Propellant Tank Market (by Propellant Tank Type)

##### 4.2.4 North America (by Country)

###### 4.2.4.1 U.S.

###### 4.2.4.1.1 Market

###### 4.2.4.1.1.1 Key Manufacturers and Suppliers in the U.S.

###### 4.2.4.1.1.2 Business Drivers

###### 4.2.4.1.1.3 Business Challenges

###### 4.2.4.1.2 Application

###### 4.2.4.1.2.1 U.S. Space-qualified propellant tank Market (by Platform)

###### 4.2.4.2 Canada

###### 4.2.4.2.1 Market

###### 4.2.4.2.1.1 Key Manufacturers in Canada

###### 4.2.4.2.1.2 Business Drivers

###### 4.2.4.2.1.3 Business Challenges

###### 4.2.4.2.2 Application

###### 4.2.4.2.2.1 Canada Space-qualified Propellant Tank Market (by Platform)

#### 4.3 Europe

##### 4.3.1 Market

###### 4.3.1.1 Key Manufacturers and Suppliers in Europe

###### 4.3.1.2 Business Drivers

###### 4.3.1.3 Business Challenges

##### 4.3.2 Application

###### 4.3.2.1 Europe Space-qualified Propellant Tank Market (by Platform)

##### 4.3.3 Product

###### 4.3.3.1 Europe Space-qualified Propellant Tank Market (by Propellant Tank Type)

#### 4.3.4 Europe (by Country)

##### 4.3.4.1 U.K.

###### 4.3.4.1.1 Market

###### 4.3.4.1.1.1 Key Manufacturers and Suppliers in the U.K.

###### 4.3.4.1.1.2 Business Drivers

###### 4.3.4.1.1.3 Business Challenges

###### 4.3.4.1.2 Application

###### 4.3.4.1.2.1 U.K. Space-qualified Propellant Tank Market (by Platform)

##### 4.3.4.2 Germany

###### 4.3.4.2.1 Key Manufacturers and Suppliers in Germany

###### 4.3.4.2.2 Market

###### 4.3.4.2.2.1 Business Drivers

###### 4.3.4.2.2.2 Business Challenges

###### 4.3.4.2.3 Application

###### 4.3.4.2.3.1 Germany Space-qualified Propellant Tank Market (by Platform)

##### 4.3.4.3 France

###### 4.3.4.3.1 Market

###### 4.3.4.3.1.1 Key Players in France

###### 4.3.4.3.1.2 Business Drivers

###### 4.3.4.3.1.3 Business Challenges

###### 4.3.4.3.2 Application

###### 4.3.4.3.2.1 France Space-qualified Propellant Tank Market (by Platform)

##### 4.3.4.4 Russia

###### 4.3.4.4.1 Market

###### 4.3.4.4.1.1 Business Drivers

###### 4.3.4.4.1.2 Business Challenges

###### 4.3.4.4.2 Application

###### 4.3.4.4.2.1 Russia Space-qualified Propellant Tank Market (by Platform)

##### 4.3.4.5 Rest-of-Europe

###### 4.3.4.5.1 Market

###### 4.3.4.5.1.1 Business Drivers

###### 4.3.4.5.1.2 Business Challenges

###### 4.3.4.5.2 Application

###### 4.3.4.5.2.1 Rest-of-Europe Space-qualified Propellant Tank Market (by Platform)

#### 4.4 Asia-Pacific

##### 4.4.1 Market

###### 4.4.1.1 Key Manufacturers and Suppliers in Asia-Pacific

###### 4.4.1.2 Business Drivers

###### 4.4.1.3 Business Challenges

#### 4.4.2 Application

##### 4.4.2.1 Asia-Pacific Space-qualified Propellant Tank Market (by Platform)

#### 4.4.3 Product

##### 4.4.3.1 Asia-Pacific Space-qualified Propellant Tank Market (by Propellant Tank)

#### 4.4.4 Asia-Pacific (by Country)

##### 4.4.4.1 China

###### 4.4.4.1.1 Market

###### 4.4.4.1.1.1 Key Manufacturers and Suppliers in China

###### 4.4.4.1.1.2 Business Drivers

###### 4.4.4.1.1.3 Business Challenges

###### 4.4.4.1.2 Application

###### 4.4.4.1.2.1 China Space-qualified Propellant Tank Market (by Platform)

##### 4.4.4.2 India

###### 4.4.4.2.1 Market

###### 4.4.4.2.1.1 Key Manufacturers and Suppliers in India

###### 4.4.4.2.1.2 Business Drivers

###### 4.4.4.2.1.3 Business Challenges

###### 4.4.4.2.2 Application

###### 4.4.4.2.2.1 India Space-qualified Propellant Tank Market (by Platform)

##### 4.4.4.3 Japan

###### 4.4.4.3.1 Market

###### 4.4.4.3.1.1 Key Manufacturers and Suppliers in Japan

###### 4.4.4.3.1.2 Business Drivers

###### 4.4.4.3.1.3 Business Challenges

###### 4.4.4.3.2 Application

###### 4.4.4.3.2.1 Japan Space-qualified Propellant Tank Market (by Platform)

##### 4.4.4.4 Rest-of-Asia-Pacific

###### 4.4.4.4.1 Market

###### 4.4.4.4.1.1 Business Drivers

###### 4.4.4.4.1.2 Business Challenges

###### 4.4.4.4.2 Application

###### 4.4.4.4.2.1 Rest-of-Asia-Pacific Space-qualified Propellant Tank Market (by Platform)

#### 4.5 Rest-of-the-World

##### 4.5.1 Market

###### 4.5.1.1 Business Drivers

###### 4.5.1.2 Business Challenges

##### 4.5.2 Application

###### 4.5.2.1 Rest-of-the-World Space-qualified Propellant Tank Market (by Platform)

#### 4.5.3 Product

4.5.3.1 Rest-of-the-World Space-qualified Propellant Tank Market (by Propellant Tank)

#### 4.5.4 Rest-of-the-World (by Region)

##### 4.5.4.1 Middle East and Africa

###### 4.5.4.1.1 Market

###### 4.5.4.1.1.1 Business Drivers

###### 4.5.4.1.1.2 Business Challenges

###### 4.5.4.1.1.3 Middle East and Africa Space-qualified Propellant Tank Market

##### 4.5.4.2 Latin America

###### 4.5.4.2.1 Market

###### 4.5.4.2.1.1 Business Drivers

###### 4.5.4.2.1.2 Business Challenges

###### 4.5.4.2.1.3 Latin America Space-qualified Propellant Tank Market

## **5 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES**

### 5.1 Competitive Benchmarking

#### 5.2 Airbus S.A.S

##### 5.2.1 Company Overview

###### 5.2.1.1 Role of Airbus S.A.S in the Global Space-qualified Propellant Tank Market

###### 5.2.1.2 Product Portfolio

##### 5.2.2 Business Strategies

###### 5.2.2.1 Partnerships, Collaborations, Agreements, Investments, and Contracts

##### 5.2.3 R&D Analysis

##### 5.2.4 Strengths and Weaknesses of Airbus S.A.S

#### 5.3 Adam Works

##### 5.3.1 Company Overview

5.3.1.1 Role of AdamWorks, LLC in the Global Space-qualified Propellant Tank Market

###### 5.3.1.2 Product Portfolio

##### 5.3.2 Strengths and Weaknesses of AdamWorks, LLC

#### 5.4 Ariane Group

##### 5.4.1 Company Overview

###### 5.4.1.1 Role of Ariane Group in the Global Space-qualified Propellant Tank Market

###### 5.4.1.2 Product Portfolio

##### 5.4.2 Business Strategies

###### 5.4.2.1 Partnerships, Collaborations, Agreements, Investments, and Contracts

##### 5.4.3 Strengths and Weaknesses of Ariane Group

## 5.5 Busek Co Inc.

### 5.5.1 Company Overview

#### 5.5.1.1 Role of Busek Co Inc. in the Global Space-qualified Propellant Tank Market

#### 5.5.1.2 Product Portfolio

### 5.5.2 Strengths and Weaknesses of Busek Co Inc.

## 5.6 Cobham Mission System (Now a Part of Eaton)

### 5.6.1 Company Overview

#### 5.6.1.1 Role of Cobham Mission System in the Global Space-qualified Propellant Tank Market

#### 5.6.1.2 Product Portfolio

### 5.6.2 Strengths and Weaknesses of Cobham Mission System

## 5.7 Infinite Composites Technologies

### 5.7.1 Company Overview

#### 5.7.1.1 Role of Infinite Composites Technologies in the Global Space-qualified Propellant Tank Market

#### 5.7.1.2 Product Portfolio

### 5.7.2 Business Strategies

#### 5.7.2.1 New Product Launches

### 5.7.3 Strengths and Weaknesses of Infinite Composites Technologies.

## 5.8 IHI Aerospace Co.

### 5.8.1 Company Overview

#### 5.8.1.1 Role of IHI Aerospace Co. in the Global Space-qualified Propellant Tank Market

#### 5.8.1.2 Product Portfolio

### 5.8.2 R&D Analysis

### 5.8.3 Strengths and Weaknesses of IHI Aerospace Co.

## 5.9 Lockheed Martin Corporation

### 5.9.1 Company Overview

#### 5.9.1.1 Role of Lockheed Martin Corporation in the Global Space-qualified Propellant Tank Market

#### 5.9.1.2 Product Portfolio

### 5.9.2 Corporate Strategies

#### 5.9.2.1 Mergers and Acquisitions

### 5.9.3 Strength and Weakness of Lockheed Martin Corporation

## 5.10 Microcosm, Inc.

### 5.10.1 Company Overview

#### 5.10.1.1 Role of Microcosm Inc. in the Global Space-qualified Propellant Tank Market

#### 5.10.1.2 Product Portfolio

### 5.10.2 Strength and Weakness of Microcosm, Inc.

## 5.11 Moog Inc.

### 5.11.1 Company Overview

#### 5.11.1.1 Role of Moog Inc. in the Global Space-qualified Propellant Tank Market

#### 5.11.1.2 Product Portfolio

### 5.11.2 Strengths and Weaknesses of Moog Inc.

## 5.12 OHB SE

### 5.12.1 Company Overview

#### 5.12.1.1 Role of OHB SE in the Global Space-qualified Propellant Tank Market

#### 5.12.1.2 Product Portfolio

### 5.12.2 Strengths and Weaknesses of OHB SE

## 5.13 Northrop Grumman Corporation

### 5.13.1 Company Overview

#### 5.13.1.1 Role of Northrop Grumman Corporation in the Global Space-qualified Propellant Tank Market

#### 5.13.1.2 Product Portfolio

### 5.13.2 Strengths and Weaknesses of Northrop Grumman Corporation

### 5.13.3 R&D Analysis

## 5.14 Nammo AS

### 5.14.1 Company Overview

#### 5.14.1.1 Role of Nammo AS in the Global Space-qualified Propellant Tank Market

#### 5.14.1.2 Product Portfolio

### 5.14.2 Strengths and Weaknesses of Nammo AS

## 5.15 Peak Technology

### 5.15.1 Company Overview

#### 5.15.1.1 Role of Peak Technology in the Global Space-qualified Propellant Tank Market

#### 5.15.1.2 Product Portfolio

### 5.15.2 Strength and Weakness of Peak Technology

## 5.16 Stelia Aerospace North America Inc.

### 5.16.1 Company Overview

#### 5.16.1.1 Role of Stelia Aerospace North America Inc. in the Global Space-qualified Propellant Tank Market

#### 5.16.1.2 Product Portfolio

### 5.16.2 Strength and Weakness of Stelia Aerospace North America Inc.

## 5.17 Other Key Players

### 5.17.1 NU Space

#### 5.17.1.1 Company Overview

### 5.17.2 Phase Four

#### 5.17.2.1 Company Overview

### 5.17.3 Antrix Corporation

#### 5.17.3.1 Company Overview

### 5.17.4 ThrustMe

#### 5.17.4.1 Company Overview

### 5.17.5 Exotrail

#### 5.17.5.1 Company Overview

## **6 RESEARCH METHODOLOGY**

### 6.1 Factors for Data Prediction and Modelling



## List Of Figures

### LIST OF FIGURES

- Figure 1: Global Space-qualified Propellant Tank Market, Number of Units, 2020-2031
- Figure 2: Global Space-qualified Propellant Tank Market, \$Million, 2020-2031
- Figure 3: Global Space-qualified Propellant Tank Market (by Platform), Number of Units, 2020 and 2031
- Figure 4: Global Space-qualified Propellant Tank Market (by Platform), \$Million, 2020 and 2031
- Figure 5: Global Space-qualified Propellant Tank Market (by Material), \$Million, 2020 and 2031
- Figure 6: Global Space-qualified Propellant Tank Market (by End User), \$Million, 2020 and 2031
- Figure 7: Global Space-qualified Propellant Tank Market (by Compression Modeling), \$Million, 2020 and 2031
- Figure 8: Global Space-qualified Propellant Tank Market (by Region), \$Million, 2031
- Figure 9: Space-qualified Propellant Tank Market Coverage
- Figure 10: Small Satellite Market Scenarios (100-2,200kg), 2020-2026
- Figure 11: Global Small Launch Vehicle Scenarios, 2020-2026
- Figure 12: Supply Chain Analysis of Space-qualified Propellant Tank Market
- Figure 13: Business Dynamics of Global Space-qualified Propellant Tank Market
- Figure 14: Number of Satellite Launches, 2010-2020
- Figure 15: Stages Involved in Research and Development Phase of an Engine
- Figure 16: Share of Key Business Strategies and Developments, January 2019-October 2021
- Figure 17: Space-qualified Propellant Tank Market (by Platform)
- Figure 18: Space-qualified Propellant Tank Market (by End User)
- Figure 19: List of End Users in Global Space-qualified Propellant Tank Market
- Figure 20: Benchmarking Score of Space-qualified Propellant Tank Market Supply Players
- Figure 21: Airbus S.A.S: R&D Analysis, \$Million, 2018-2020
- Figure 22: IHI Aerospace Co: R&D Analysis, \$Billion, 2017-2019
- Figure 23: Northrop Grumman Corporation: R&D Analysis, \$Million, 2018-2020
- Figure 24: Research Methodology
- Figure 25: Top-Down and Bottom-Up Approach
- Figure 26: Assumptions and Limitations

## List Of Tables

### LIST OF TABLES

Table 1: Technological Roadmap, 2010-2035

Table 2: List of Certification

Table 3: Expected Launches of Small Satellite Constellations by 2026

Table 4: Type of Nano Material for Space-Qualified Propellant Tank Market

Table 5: Upcoming Deep Space Missions

Table 6: Partnerships, Collaborations, Agreements, and Contracts, January 2019-August 2021

Table 7: Mergers and Acquisitions, January 2019-August 2021

Table 8: Other Developments, January 2019-August 2021

Table 9: Global Space-qualified Propellant Tank Market (by Platform), Volume and Value, 2020-2031

Table 10: Global Space-qualified Propellant Tank Market (by Satellite Type), Value and Volume, 2020-2031

Table 11: Global Space-qualified Propellant Tank Market (by Launch Vehicle Type), Value and Volume, 2020-2031

Table 12: Global Space-qualified Propellant Tank Market (by End User), \$Million, 2020-2031

Table 13: Global Space-qualified Propellant Tank Market, (by Material), \$Million 2020-2031

Table 14: Global Space-qualified Propellant Tank Market, (by Manufacturing Process), \$Million 2020-2031

Table 15: Global Space-qualified Propellant Tank Market (by Propellant Tank Type), \$Million, 2020-2031

Table 16: Global Space-qualified Propellant Tank Market (by Region), \$Million, 2020-2031

Table 17: North America Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 18: North America Space-qualified Propellant Tank Market (by Propellant Tank Type), \$Million, 2020-2031

Table 19: U.S. Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 20: Canada Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 21: Europe Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 22: Europe Space-qualified Propellant Tank Market (by Propellant Tank Type), \$Million, 2020-2031

Table 23: U.K. Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 24: Germany Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 25: France Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 26: Russia Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 27: Rest-of-Europe Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 28: Asia-Pacific Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 29: Asia-Pacific Space-qualified Propellant Tank Market (by Propellant Tank), \$Million, 2020-2031

Table 30: China Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 31: India Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 32: Japan Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 33: Rest-of-Asia-Pacific Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 34: Rest-of-the-World Space-qualified Propellant Tank Market (by Platform), \$Million, 2020-2031

Table 35: Rest-of-the-World Space-qualified Propellant Tank Market (by Propellant Tank), \$Million, 2020-2031

Table 36: Middle East and Africa Space-qualified Propellant Tank Market, \$Million, 2020-2031

Table 37: Latin America Space-qualified Propellant Tank Market, \$Million, 2020-2031

Table 38: Benchmarking and Weightage Parameters

Table 39: Airbus S.A.S: Product Portfolio

Table 40: Airbus S.A.S: Partnerships, Collaborations, Agreements, Investments, and Contracts

Table 41: AdamWorks, LLC: Product Portfolio

Table 42: Ariane Group: Product Portfolio

Table 43: Ariane Group: Partnerships, Collaborations, Agreements, Investments, and Contracts

- Table 44: Busek Co Inc.: Product Portfolio
- Table 45: Cobham Mission System: Product Portfolio
- Table 46: Infinite Composites Technologies: Product Portfolio
- Table 47: Infinite Composites Technologies: New Product Launches
- Table 48: IHI Aerospace Co.: Product Portfolio
- Table 49: Lockheed Martin Corporation: Product Portfolio
- Table 50: Lockheed Martin Corporation: Mergers and Acquisitions
- Table 51: Microcosm, Inc.: Product Portfolio
- Table 52: Moog Inc.: Product Portfolio
- Table 53: OHB SE: Product Portfolio
- Table 54: Northrop Grumman Corporation: Product Portfolio
- Table 55: Nammo AS: Product Portfolio
- Table 56: Peak Technology: Product Portfolio
- Table 57: Stelia Aerospace North America Inc.: Product Portfolio

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