

# Global Space-Qualified Propellant Tank Market: Focus on Platform, End User, Material, Manufacturing Process, Propellant Tank and Country - Analysis and Forecast, 2023-2033

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## Abstracts

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### Introduction of Space-Qualified Propellant Tank

Space-qualified propellant tanks are critical components in the field of aerospace engineering, designed to meet the stringent requirements of space missions. These tanks store the propellant necessary for spacecraft propulsion, enabling maneuvers such as orbit adjustment, deorbiting, and deep space exploration. The design and manufacturing of space-qualified propellant tanks involve advanced materials and technologies to ensure reliability, safety, and efficiency in the harsh environment of space.

Over the years, advancements in materials science and engineering have led to the development of tanks that can withstand extreme temperatures, pressures, and the corrosive nature of various propellants. Manufacturers such as Benchmark Space Systems and institutions such as the ?ukasiewicz Institute of Aviation have been at the forefront of innovating propulsion systems that utilize high-test peroxide (HTP) and other green propellants, aiming to reduce the environmental impact of space missions.

Moreover, the successful deployment of these tanks in space missions underscores the importance of reliable propellant storage solutions in the expanding landscape of satellite technology and interplanetary exploration. The design considerations for these tanks, including material selection and structural integrity, play a pivotal role in the

mission's success, highlighting the critical balance between performance, cost, and manufacturability (DocsLib). As the space industry continues to evolve, with an increasing focus on sustainability and efficiency, space-qualified propellant tanks will remain indispensable in powering the next generation of spacecraft, further enabling humanity's exploration and utilization of outer space.

## Market Introduction

The space-qualified propellant tank market is a highly specialized sector within the aerospace industry, focusing on the production and supply of propellant storage solutions for spacecraft and satellite operations. This market caters to a wide range of applications, from commercial satellite constellations and government space missions to deep space exploration ventures. It is driven by the critical need for reliable, efficient, and safe storage of propellants that power the thrusters and engines essential for maneuvering and operating spacecraft in the vacuum of space.

As the global space economy continues to expand, with increasing numbers of large satellite launches and ambitious exploration missions to the Moon, Mars, and beyond, the demand for space-qualified propellant tanks is experiencing significant growth. This growth is further amplified by the emergence of new space-faring nations and private space companies, each contributing to a more crowded and competitive arena both in Low Earth Orbit (LEO) and in deeper space.

The market encompasses a variety of propellant tank types designed to store both traditional and green propellants. Traditional propellants include hydrazine and nitrogen tetroxide, while green propellants such as Hydroxylammonium Nitrate Fuel Blend (AF-M315E) and LMP-103S offer the promise of reduced environmental impact and enhanced safety for ground operations. The choice of propellant influences the design, material selection, and manufacturing processes of the tanks, with each option presenting its own set of challenges and benefits. Innovation and technological advancements play a crucial role in this market. Manufacturers are constantly seeking new materials and design approaches to create tanks that are lighter, more durable, and capable of withstanding the extreme conditions of space. These innovations not only improve the performance and reliability of space missions but also contribute to reducing the overall cost of access to space.

Furthermore, the push toward in-space manufacturing and refueling stations, along with the development of reusable spacecraft, is creating new opportunities and challenges for the space-qualified propellant tank market. The ability to refuel spacecraft in orbit or

on other celestial bodies could dramatically change the logistics and economics of space exploration, requiring tanks that are not only reliable over longer missions but also compatible with in-space propellant transfer technologies.

## Industrial Impact

The industrial impact of the space-qualified propellant tank market is profound and multifaceted, resonating across the aerospace industry and its ancillary sectors. As the backbone of spacecraft propulsion systems, these tanks are pivotal in enhancing the reliability, efficiency, and safety of space missions. The market's evolution is spurring innovation in materials science and propulsion technologies, pushing manufacturers to develop lighter, more durable tanks capable of withstanding the rigors of space. This, in turn, demands a skilled workforce and fosters job creation in high-tech engineering and manufacturing domains. Moreover, the drive toward greener propellants and the need for space sustainability are shaping environmental standards and practices within the industry. As commercial space activities burgeon, the demand for space-qualified propellant tanks is set to rise, highlighting the market's crucial role in the broader space economy and its contribution to technological advancement, economic growth, and environmental stewardship in the era of space exploration.

## Market Segmentation:

### Segmentation 1: by Platform

Satellite

0-500 kg

501-1,000 kg

1,001 kg and Above

Launch Vehicle

Small Lift Launch Vehicle (0-2,200 kg)

Medium and Heavy Lift Launch Vehicle (2,201 kg and Above)

## Launch Vehicle Segment to Dominate the Global Space-Qualified Propellant Tank Market (by Platform)

The launch vehicle segment in the space-qualified propellant tank market is leading due to several driving factors. The increasing number of satellite launches and the development of satellite constellations for various purposes, including communication, Earth observation, navigation, and tracking, are major contributors to this trend. Launch vehicles require specialized propellant tanks to store fuel or oxidizer for rocket stages, and the demand for lightweight, efficient propellant tanks is on the rise to enhance the performance of these vehicles.

### Segmentation 2: by Material

Carbon Fiber Composites

Aluminum and Titanium Alloys

Nanomaterials

Thermoset and Thermoplastic Composites

Others

## Carbon Fiber Composites Segment to Dominate the Global Space-Qualified Propellant Tank Market (by Material)

The carbon fiber composites segment had the highest market penetration in 2022. The carbon fiber composites reported revenue of \$423.6 million in 2022 and is expected to grow at a CAGR of 7.06% during the forecast period 2023-2033.

### Segmentation 3: by End User

Government and Military

Commercial

### Segmentation 4: by Manufacturing Process

Automated Fiber Placement

Compression Molding

Additive Manufacturing

Conventional Manufacturing

Others

#### Segmentation 5: by Propellant Tank

Diaphragm Tanks

Propellant Management Devices

Helium, Nitrogen and Xenon Tanks

Aluminum Alloy Tanks

Hydrazine Tanks

HTP Tanks

#### Segmentation 6: by Region

North America - U.S. and Canada

Europe - U.K., Germany, France, Russia, and Rest-of-the-Europe

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

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

North America leads the global space-qualified propellant tank market for several key reasons, including its robust aerospace industry. The region benefits from substantial

investments by both government and commercial organizations in space exploration and satellite technologies. Programs such as NASA's Artemis, aimed at returning humans to the Moon and eventually Mars, underscore the ambitious goals that drive funding and development in the sector. This level of investment facilitates advancements in space-qualified propellant tanks and related technologies. North America is at the forefront of technological innovation in aerospace, including the development of lightweight and high-performance propellant tanks. The focus on advancing electric, chemical, and hybrid propulsion systems further solidifies the region's leadership position. Innovations, such as the development of linerless composite cryogenic propellant tanks, exemplify the technological strides being made.

### Recent Developments in the Global Space-Qualified Propellant Tank Market

In March 2023, China achieved a significant milestone in its pursuit of developing a super heavy-lift launch vehicle by successfully producing a 33-foot-wide (10-meter) class propellant tank. This remarkable accomplishment was announced by the China Academy of Launch Vehicle Technology (CALT). The manufacturing of this sizable tank showcases technological breakthroughs, enabling the creation of a propellant storage tank that is both robust and lightweight, crucial for rocket launches.

In July 2022, Lockheed Martin, in partnership with Australian company Omni Tanker and the University of New South Wales (UNSW) Sydney, embarked on a groundbreaking project to create and bring to market advanced composite tank technologies. This initiative, supported by a grant from the Australian Government's Advanced Manufacturing Growth Centre (AMGC), focuses on the development of innovative solutions for the storage and transport of liquid hydrogen. The project, valued at \$0.91 million, aimed to overcome the challenges associated with using composite materials for cryogenic liquid fuel storage, catering to various applications, including terrestrial, aerial, underwater, and space environments.

In August 2021, Firefly Aerospace Inc. announced a new business line for supplying rocket engines and spaceflight components, including carbon fiber-reinforced composite structures.

How can this report add value to an organization?

**Product/Innovation Strategy:** The product segment helps the reader understand the different types of products available for deployment globally. Moreover, the study provides the reader with a detailed understanding of the global space-qualified propellant tank market based on platform (satellite and launch vehicle) and end user (government and military and commercial). The global space-qualified propellant tank market is segmented into the material (carbon fiber composite, aluminum and titanium alloys, nanomaterials, thermoset and thermoplastic composites, and others), manufacturing process (automated fiber placement, compression molding, additive manufacturing, conventional manufacturing, and others) and propellant tank (diaphragm tanks, propellant management devices, helium, nitrogen, and xenon tanks, aluminum alloy tanks, hydrazine tanks, and high-test peroxide tanks).

**Growth/Marketing Strategy:** The global space-qualified propellant tank market has seen major development by key players operating in the market, such as business expansion, partnership, collaboration, and joint venture. The company's favored strategy has been partnerships and contracts to strengthen its position in the global space-qualified propellant tank market. For instance, Airbus selected MT Aerospace AG to provide tanks for the spacecraft's chemical propulsion system. The contract, worth \$3.06 million, was signed in May 2021. These tanks, part of the E3000 tank series initially designed for telecommunications satellites, are utilized to minimize development complexity and effort. Each tank has a capacity of 225 liters and is designed to release the required propellant and oxidizer in zero gravity using capillary action via a complex assembly known as the propellant management device.

**Methodology:** The research methodology design adopted for this specific study includes a mix of data collected from primary and secondary data sources. Both primary resources (key players, market leaders, and in-house experts) and secondary research (a host of paid and unpaid databases), along with analytical tools, are employed to build the predictive and forecast models.

Data and validation have been taken into consideration from both primary sources as well as secondary sources.

#### Key Considerations and Assumptions in Market Engineering and Validation

Detailed secondary research has been done to ensure maximum coverage of manufacturers/suppliers operational in a country.

Based on the classification, the average selling price (ASP) has been calculated

using the weighted average method.

The currency conversion rate has been taken from the historical exchange rate of Oanda and/or other relevant websites.

Any economic downturn in the future has not been taken into consideration for the market estimation and forecast.

The base currency considered for the market analysis is US\$. Currencies other than the US\$ have been converted to the US\$ for all statistical calculations, considering the average conversion rate for that particular year.

The term “product” in this document may refer to “propellant tank” as and where relevant.

The term “manufacturers/suppliers” may refer to “systems providers” or “technology providers” as and where relevant.

## Primary Research

The primary sources involve industry experts from the aerospace and defense industry, including propellant tank manufacturers and component manufacturers. Respondents such as CEOs, vice presidents, marketing directors, and technology and innovation directors have been interviewed to obtain and verify both qualitative and quantitative aspects of this research study.

## Secondary Research

This study involves the usage of extensive secondary research, company websites, directories, and annual reports. It also makes use of databases, such as Spacenews, Businessweek, and others, to collect effective and useful information for a market-oriented, technical, commercial, and extensive study of the global market. In addition to the data sources, the study has been undertaken with the help of other data sources and websites, such as [www.nasa.gov](http://www.nasa.gov).

Secondary research was done to obtain critical information about the industry’s value chain, the market’s monetary chain, revenue models, the total pool of key players, and the current and potential use cases and applications.



## Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on thorough secondary research, which includes analyzing company coverage, product portfolio, market penetration, and insights gathered from primary experts.

The global space-qualified propellant tank market comprises key players who have established themselves thoroughly and have the proper understanding of the market, accompanied by start-ups who are looking forward to establishing themselves in this highly competitive market. In 2022, the global space-qualified propellant tank market was dominated by established players, accounting for 71% of the market share, whereas start-ups managed to capture 29% of the market.

Some prominent names established in this market are:

Airbus S.A.S.

Adam Works.

Ariane Group

Busek Co. Inc.

Infinite Composite Technologies

IHI Aerospace Co.

Lockheed Martin Corporation

Microcosm, Inc.

Moog Inc.

OHB SE

Northrop Grumman Corporation

Nammo AS

Peak Technology

Phase Four

Stelia Aerospace North America Inc.

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