Spacesuit Market : Key Market Dynamics and Growth Opportunities, 2022-2031

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Spacesuit Market

WILMINGTON, DE, UNITED STATES, December 1, 2025 /EINPresswire.com/ -- The global spacesuit industry was generated $0.75 billion in 2021, and is anticipated to generate $1.5 billion by 2031, witnessing a CAGR of 7.3% from 2022 to 2031.

An Intra-Vehicular Activity Suit (IVA) is a spacesuit designed to be worn during activities such as launching, docking, and re-entry into a spacecraft or space station. It is not intended for extravehicular activity (EVA) or spacewalk use, as it does not have life support systems, locomotion capabilities, or other tools necessary for working outside the spacecraft. IVA suits typically provide the wearer with basic protection, such as pressure and fire resistance, and may have integrated communications and cooling systems. IVA suits are simpler and less complex than EVA suits, resulting in lower development, maintenance, and operational costs.

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Moreover, IVA suits are easier to don and doff than EVA suits as they do not require complicated airlocks or decompression procedures. Manufacturers develop flight suits for their astronaut capsules to help protect astronauts on launch day, in emergency situations. For instance, in May 2020, the crewed flight of Crew Dragon astronauts wore IVA suits called SpaceX spacesuits or the Crew Dragon spacesuit developed by SpaceX for the Demo-2 mission.

EVA stands for Extravehicular Activity. EVA suits are space suits designed for astronauts to perform activities outside of spacecraft and space stations. These suits are also called spacesuits and are specifically designed to protect astronauts from the harsh environment of space, including extreme temperatures, dust, radiation, and the vacuum of space. These come with a

helmet with a visor that allows astronauts to see the surroundings clearly.EVA suits provide life support systems such as oxygen, temperature control, and waste management to assist astronauts during missions.

Moreover, manufacturers and space agencies are focused on the design, development, and launch of new exploration spacesuits and other human surface mobility systems. For instance, in March 2023, NASA and Axiom Space announced the launch of a prototype of EVA suit for its Artemis Moon Mission called Artemis III mission. The reveal is expected to be scheduled at Space Center Houston in Texas.

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The global spacesuit market is expected to experience growth due to various factors such as the expansion of space exploration programs, an increase in the budget for the space industry, and advancements in material science. Nevertheless, the market could face challenges from high manufacturing and maintenance costs, as well as a lack of standardization. However, the growth of space tourism presents an excellent opportunity for market players to expand their operations and increase their profits.

Significant factors that impact the growth of the spacesuit market comprise rise in space exploration programs, an increase in the space industry budget, and advancements in material science. However, factors such as high manufacturing and maintenance cost, and lack of standardization are expected to hamper the market growth during the forecast period. Furthermore, growth in space tourism is expected to create new growth opportunities for the market during the forecast period.

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Based on region, North America held the highest market share in terms of revenue in 2021, accounting for more than half of the global spacesuit market revenue. This is attributed to the fact that private space companies in the region such as SpaceX and Blue Origin are investing in space exploration and building space stations. However, the Asia-Pacific region is expected to witness the fastest CAGR of 9.8% from 2022 to 2031 and is likely to dominate the market during the forecast period, owing to increased engagement in various space projects and space programs, which are expected to accelerate the development of spacesuits.

Leading Market Players: -

DAVID CLARK COMPANY INCORPORATED
ILC DOVER LP
OCEANEERING INTERNATIONAL, INC,

VINYL TECHNOLOGY, INC.
PARAGON SPACE DEVELOPMENT CORPORATION
SPACEX
BOEING
RAYTHEON TECHNOLOGIES CORPORATION
PACIFIC SPACEFLIGHT
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