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Materials It Takes to Make Proper Space Suits for Astronauts

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Space suits are clothing worn by astronauts due to the harsh environment in the outer space. The suits are made from unique materials designed to be used outside the atmosphere of the earth. The suits are made for specific functions concerning astronomy, and for these reasons the materials go through advanced and rigorous tests to ensure they are safe to be worn by astronauts.

Since the astronauts will be going into the outer limits, special care must be given to the clothes they will wear as is with everything else. The engineering department and the technical team have to make sure that all is well. After the rocket has been launched, there are no other options of rectifying the equipment including their clothing gear. Hence, everything has to be spick and span from the word go.

The materials used for the astronauts body gear, have the special capability of allowing oxygen circulation in their fabrics. This helps in holding out external pressure in case there is a lapse in the cabin pressure of the rocket. The clothing material is also able to keep the bodies of the astronauts at ideal temperatures regardless of the outside weather conditions. The fabric is also stain-resistant and does a good job of keeping out foul smells.

The garments are simply formidable pieces of art. Creators of the body regalia use the latest state-of-the-art testing techniques to find quality materials for the job. When the outer universe explorers pass the ozone layer, the conditions they face are not good for human habitation. Therefore the risk of succumbing to harsh conditions is very real. The body armor has to be designed to match those extremes.

The earth is the only place so far that has enough atmospheric conditions to sustain a lot of life. This means that, when man decides to venture out of his usual environment, then he must be prepared to face conditions that are not habitable. The explorers who go out to places that are not habitable should take precaution on likely eventualities such as the threat of radioactive materials.

Various tests must be carried out to ensure that the clothes are safe and no ultraviolet lights can penetrate them. Exposure to radioactive materials is very dangerous and can even lead to growth of cancerous cells. The clothes are not meant to fit exactly, but are spacious and designed to make the wearer feel comfortable. They are very flexible to ease movement.

True to its purpose, the garment is supposed to give the astronaut an out of this world experience. It has been exactly designed on earth to withstand conditions that do not exist on earth. The garments are designed each according to the purpose it will be used for. Some may be used for simple exploration tours, while others may be designed for technical work out there.

The quality standards held for them can be compared to the standards that are set for parachutes. A parachute that experiences a technical problem while in use can be fatal, which can also be said of the clothes of astronauts. Space suits are some of the most technologically advanced garments in the universe.

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