

Astronaut Escape Suit



SPACE

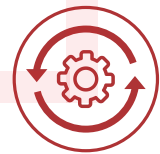
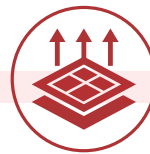
MAAN
DEFENCE

The Astronaut Escape Suit is a full-pressure emergency protective suit designed to ensure astronaut safety during launch, re-entry, and emergency escape situations. The suit provides breathable oxygen, pressure maintenance, thermal insulation, and protection against harsh environmental conditions, enabling crew survival in low-pressure or hazardous environments. Developed with lightweight indigenous components, the suit offers reliable performance, mobility, and comfort while operating in extreme temperatures.



Features:

- ▶ Full-pressure head-to-toe protection.
- ▶ Lightweight single-piece design.
- ▶ Indigenous development.
- ▶ Oxygen and pressure support.
- ▶ Thermal protection system.
- ▶ Custom-tailored fit.
- ▶ High safety proof pressure.



Applications:

- ▶ Spacewalks (EVA)
- ▶ Launch & re-entry missions
- ▶ Aerospace research
- ▶ Astronaut training
- ▶ Vacuum environment testing

Astronaut Escape Suit

SPACE

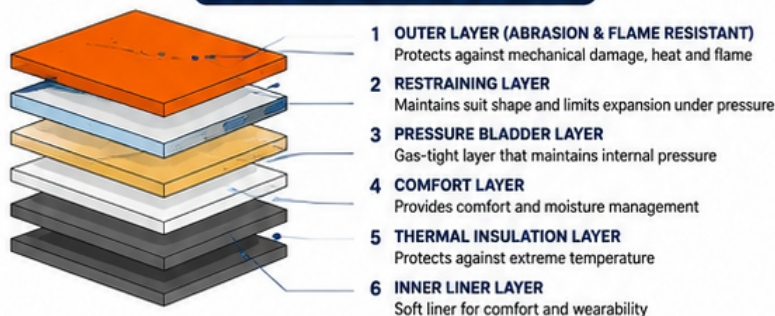


FRONT VIEW

REAR VIEW



SUIT LAYER STRUCTURE (SCHEMATIC)





Astronaut Escape Suit

SPACE



Technical specs:

Parameter	Value
Suit Type	Full Pressure Space Suit
Design Configuration	Single-piece Overall
Protection Coverage	Head-to-Toe
Customization	Tailor-made for Individual Crew
Operating Atmosphere	18%–21% Oxygen with Remaining Nitrogen
Emergency Atmosphere	100% Oxygen
Operating Temperature Range	-40°C to +80°C
Operating Pressure	75 kPa Differential
Proof Pressure	1.5 × Operating Pressure
Maximum Weight	20 kg

MAANDENCE