Spacewalk in style

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The Ultimate Wardrobe Where Every Stitch Has A Survival Story

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The defroster

Runway feature: Invisible defroster - During Extravehicular Activity (EVA), body heat and moisture can cause significant condensation on the visor.

The science: Helmet ventilation directs a steady flow of oxygen across the visor, helping prevent condensation. The helmet also assists in providing life support by supplying oxygen, removing carbon dioxide, and helping regulate the astronaut's environment.

Why it matters: In space, a foggy visor isn't a fashion faux pas, it may result in losing sight of instruments, essential tools, and surroundings.

The gloves

Runway feature: Heated fingers and high-gripping palms - Pressurised gloves can be stiff and difficult to maneuver when astronauts face extreme temperatures during extravehicular activity.

The science: Insulation and, in some particular suit designs, heating elements serve the purpose of maintaining hand temperature. Specialised textures improve grip, allowing astronauts to operate tools, switches, and scientific equipment.

Design rule: Warm, flexible, grippy, and protective - a glove that can do it all!

The boots

Runway feature: Planetary armour EVA boots must withstand extreme temperatures and abrasive surfaces.

The science: Multiple protective and insulating layers help to regulate the temperature and shield the feet of the astronaut. The boots must also remain flexible enough for walking, climbing, and working without any hindrance.

Design rule: Protection without any unnecessary bulk and weight.



The golden visor

Runway feature: 24-karat plating that protects - Space has no atmosphere to scatter and filter sunlight as Earth's atmosphere does. Direct solar glare can therefore be dangerously intense.

The science: A remarkably thin, gold coating in the visor assembly reflects infrared and ultraviolet radiation while reducing intense solar glare.

Fashion secret: That golden glow isn't for glamour. Gold's optical properties make it a high-tech protective filter.

The helmet

Runway feature: Acoustic protection - Pumps and cooling systems generate loud and distracting mechanical noises.

The science: Microphones, speakers, and noise-management features help astronauts hear and communicate clearly with crewmates and mission control.

Space fact: Sound cannot travel through the vacuum of space. The sounds that astronauts hear all come from the air inside their pressurised suit and spacecraft.

The connectors

Runway feature: Quick-Disconnect Rings - A spacesuit must remain pressurised in the vacuum of space, but astronauts may need to attach and remove components such as gloves.

The science: Specialised connectors and locking rings create secure interfaces between suit sections, while maintaining pressure integrity.

Design rule: Each tiny connection works together to ensure that the suit is kept sealed and that the astronaut is protected without any compromise and discomfort.

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