

FS8 Pressure Suit Test Data 2025011504

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Suit model: FS8

Max Suit Pressure: 4.34 PSI

Inflation gas: air (78% nitrogen, 21% oxygen)

Total test duration: 700 seconds (11.7 minutes)

Operational notes: Human in the loop demonstration of full system to NASA EMU suit pressures (4.3psi). Suit pressure initially rose then declined from T= \sim 100s to T= \sim 350s as the air compressor holding tank pressure dropped below the nominal suit input pressure. Compressor pump was restarted at T= \sim 350s and suit pressure recovers quickly. Once the air flow was back to normal the suit climbed steadily to 4.3 psi over ambient for the duration of the test which was approximately 5 minutes.

