

FS8 Pressure Suit Test Data 20250110

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Suit model: FS8

Max Suit Pressure: 7.6 PSI

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

Total test duration: 1700 seconds (28.3 minutes)

Operational notes: Suit pressure was brought from about 50 seconds to 740 seconds where we see an s-curve type inflation, this is where the seals of the suit are getting tighter. Around 720 seconds there was a flow rate adjustment to lower flow, with further adjustments made at 760 seconds, 920 seconds, 1020 seconds, 1460 seconds. The flow to the suit was shut off completely at 1700 seconds where we see suit seals automatically depress and return the suit to ambient at 1710 seconds. Suit was at operation life sustaining pressure (if at vacuum) for approximately 18 minutes during test from 600 seconds to 1700 seconds.

Suit Data Graphs

(Time in seconds, pressure in PSI, temperature in F)

