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Rigid Immobilization System for Extremities (RISE) TAC6000 Environmental Testing

These tests were performed to validate that the RISE assembly remains suitable for use after repeated assembly / disassembly when subjected to extreme environmental and usage conditions.

Test 1: Environmental conditional testing. 2/17/2021 – 2/19/2021

Temperature 19°F – 27.5°F at time of testing

Having been exposed to the elements and allowed to soak in subzero temperatures at night for 3 days, 5 (five) units were subjected to rigorous folding, twisting, bending, and completely assembled with no visual abnormalities, fatigue, deterioration, or damage and all 5 units performed as designed.

Test 2: Stress Testing 3/16/2021

Temperature: 71°F 56% RH

One (1) unit was subjected to rigorous folding, twisting, bending, and completely assembled 50 (fifty) times to assess its ability to continue to function after excessive usage.

Other than visual whitening in the crease folds of the splint, there were no visible signs of damage, fatigue, deterioration, or damage which would render the unit unacceptable for use.

Test 3: Full immersion testing. 3/16/2021

One (1) unit was subject to full immersion in saline solution at room temperature for 24 hours.

With no rinse-off, the unit fully passed the Form, Fit & Function validation with minimal fading to the printing.

A different one Unit (1) was fully immersed in clean faucet water at room temperature for 24 hours.

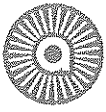
With no rinse off, this unit also passed the Form, Fit & Function test with no discernable fading to the printing.

Test 4. Environmental Chamber Testing. 2/17/2021

Five (5) pieces subjected to testing at -60°F for four hours then immediately heated to 180°F for a further 4 hours, then immediately pressurized to 28kP for one hour.

The units were then subjected to a full Form, Fit, Function test with no discernable degradation in operation, damage or fatigue to the units.





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Please let me know if you have any questions,

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