

JAY[®] Balance Fluid with Cryo[®] Technology

CRYO FLUID



Key Points

- Decreasing the skin temperature may reduce ischaemia severity (reduced blood flow) and lower the risk of developing a PU/PI
- Decreasing the temperature by up to 9°F (5°C) at the skin-support surface interface can have a significant protective effect
- Reducing skin temperature and interface pressure together produces the most beneficial effect

Why have JAY engineers developed JAY® Flow Fluid with Cryo® Technology

- ✓ Provide an effective solution for reducing heat and moisture
- ✓ Establish Sunrise Medical as the only manufacturer to address all 4 risk factors in a cushion
 1. Pressure
 2. Shear
 3. Moisture
 4. Temperature
- ✓ Maintain philosophy of 'Clinically Superior Seating'

What is it & What Does it Do?

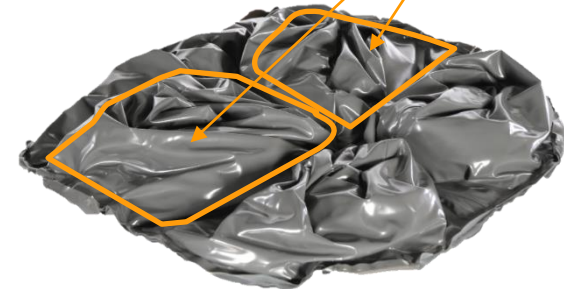
Feature

- **JAY® Fluid with Cryo® Technology**

- Contains 'Phase Change Materials' – millions of **paraffin wax microbeads** that change from solid to liquid in response to increased heat
- **Graphite filaments** in the JAY Cryo® Fluid actively draws heat from the buttocks to surrounding microbeads within the entire pad
- Cryo® Fluid 'resets' back to original state when off-loaded i.e. person transfers off cushion
- Cryo® Fluid can 'reset' an indefinite number of times



JAY® Fluid with Cryo® technology

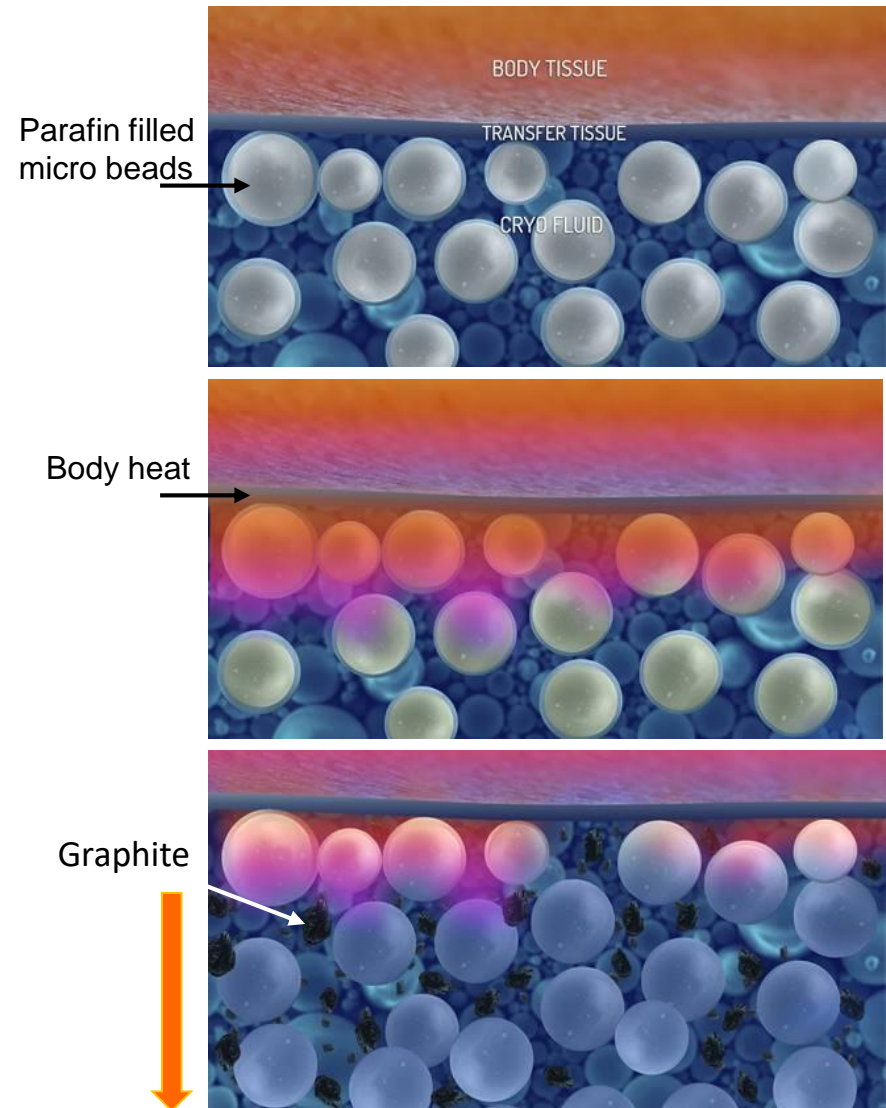


Benefit

- Reduces the skin temperature by up to 9°F (5°C) and prevents the build up of moisture which both increase the risk of PU/PI
- Active cooling effect lasts for up to 8 hours and ensures the seated skin temperature is maintained within a therapeutic range of 28-32°C (82-90°F)

It occurs using **Phase Change Material** technology

1. Heat is pulled away from user's skin into JAY Fluid with Cryo® technology because fluid is cooler (High to Low temperature gradient)
2. Increased heat causes the paraffin inside millions of microbeads to turn from solid to liquid (process called 'Phase Change')
3. Heat is passed through all of the beads in the bladder via graphite filaments and away from the skin
4. Process is continually repeated until all beads become liquefied (~8 hours)



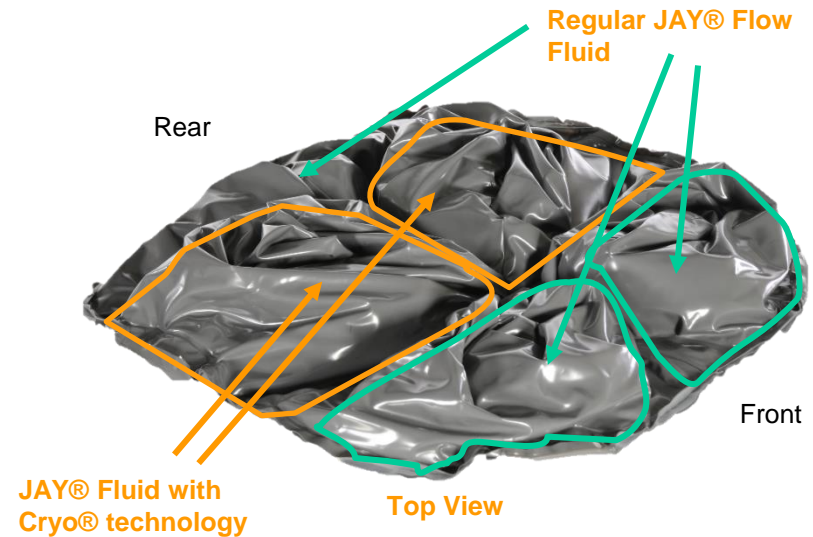
Where is it Located?

Feature

- 5 chamber (segmented) fluid insert pad containing both JAY Flow and JAY Fluid with Cryo® Technology
- Cryo® Fluid only in IT sections and regular JAY Flow Fluid in remaining 3 sections

Benefit

- Prevents fluid migration to keep the fluid exactly where it is needed for high skin protection – around IT's, Sacrum and GT's
 - Especially important during position changes - tilt, recline, supine and stand
- JAY Flow Fluid allows deep immersion & envelopment around bony prominences for optimal pressure distribution and low shear



- JAY Flow fluid with CRYO® Technology will benefit users who are increased or high risk of skin breakdown by lowering skin temperature and moisture build-up in conjunction with reduced pressure and shear at the seat surface
- Examples include
 - Users unable to independently reposition themselves within their wheelchair
 - Have previous history or current of PU/PI
 - Often use powered seat functionality – Tilt, Recline, ELRs
 - Users who suffer from increased skin temperatures
 - Multiple Sclerosis - interrupted neural control and endocrine function
 - Cerebral Palsy - can lack the ability to sweat
 - TBI – traumatic & Non traumatic
 - Stroke
 - High level SCI
 - Bariatric (Obesity) – can suffer excessive perspiration
 - Hyperthyroidism
 - Cancer e.g. Non-Hodgkins lymphoma, leukaemia, bone, liver
 - Users who are physically active and/ or play sports
 - Users living in hot or humid climates

- **Standard JAY® Balance Fluid insert**

- Allows immersion & envelopment into PLA fluid Insert for optimal pressure distribution
- Promotes pelvic positioning and stability
- Slow JAY fluid displacement & Stretch cover for shear reduction
- Microclimatic cover (with 3DX™) to reduce moisture via increased airflow
- 3 chamber Pad



- **New JAY® Fluid with CRYO® Technology**

Same benefits as Standard JAY BALANCE but also:

- Increased protection of skin surface from temperature increases
- Active cooling effect for up to 8 hours
- Reduces moisture forming on the skin
- 5 chamber 'segmented' pad – keeps fluid where it is needed, CRYO Fluid only in IT sections
- ca. 650 g heavier

