

The Solution to Personal Cooling

PhaseCore 28 is a non-toxic, non-flammable phase change material (PCM) made of a salt blend that is sealed inside of an aluminum wrapper. It changes from solid to liquid and back again depending on the surrounding temperature. PhaseCore 28 elements are not effected by humidity and react to direct heat. Garments in a variety of styles and materials are designed to utilize the cooling effects of PhaseCore 28 elements to reduce heat stress.

Uses: Personal Cooling, Microclimate Cooling, Computer Cooling

Includes: PhaseCore Material (Salt Blend), Aluminum Wrapper, Label



Large

PhaseCore 28 Element Highlights

- Recharges at Room Temperature
- Recharges without Ice, Water, or Refrigeration
- Easy to Use and Maintain
- Effective For Hours
- Reusable
- Non-Toxic, Non-Flammable



Small

Specifications

	Small	Large	Hat Liner
Activation Point	82.4°F (28°C)	82.4°F (28°C)	82.4°F (28°C)
Dimension	5.1 x 1.6 x .3 in. (130 x 40 x 8 mm)	5.1 x 3.1 x .3 in. (130 x 80 x 8 mm)	8 in. diameter (20 cm diameter)
Weight	1.75 oz (50 g)	3.5 oz (100 g)	.35 lbs. (.15 kg)
PhaseCore Element	Non-toxic, non-flammable salt mixture sealed inside an aluminum wrapper.		

Additional Information

How does it work?

PhaseCore 28 elements have an activation point of 82.4°F (28°C). When the ambient temperature rises above this point, the element begins to absorb heat energy and transforms from a solid to a liquid. PhaseCore 28 elements will remain at its activation point as the heat energy is absorbed and stored. When heat is absorbed, the PhaseCore elements provide a comfortable and soothing cooling effect. PhaseCore elements recharge and return to their solid state when the ambient temperature drops below the activation point. PhaseCore 28 elements have a 10 year or 6,000 cycle life.

Is it effective?

Tests completed in a hot environment have proven that PhaseCore 28 technology is effective in helping to combat the rise in a person's body surface temperature when in a hot environment. PhaseCore elements are effective for up to 4 hours, actual time varies based on physical activity, body type, environmental conditions, and garment.

How does it recharge?

PhaseCore 28 elements can be recharged by storing them in an environment less than the activation point of 82.4°F (28°C). PhaseCore elements can be recharged more quickly in colder environments. Refrigeration is not required, but will make the recharge period shorter. Use of PhaseCore elements after refrigeration or freezing can prolong and enhance the cooling effect. PhaseCore elements are completely recharged when they return to a solid state. PhaseCore is simple, safe, and reusable.

* Testing Data and Material Safety Data Sheets (MSDS) are available by request.

PhaseCore 28

First Line Technology, LLC

Item	Item ID	Vest Style
Single PhaseCore 28 Small Element	35-0028S	--
Single PhaseCore 28 Large Element	35-0028	--
Single PhaseCore 28 Hat Liner	C7-15280Z	--
Set of 16 PhaseCore 28 Elements	35-1628	Standard
Set of 22 PhaseCore 28 Elements	35-2228	SWEDE
Set of 26 PhaseCore 28 Elements	35-2628	Athletic

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