

PHASECORE 28 ELEMENTS

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

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

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.

DESCRIPTION	MODEL	VEST STYLE
PhaseCore 28		
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



PHASECORE 28 ELEMENT



PHASECORE 28 HAT LINER



SWEDE COOLING VEST



STANDARD COOLING VEST

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

PHASECORE 32 ELEMENTS

THE SOLUTION TO PERSONAL COOLING

PhaseCore 32 is a non-toxic, non-flammable phase change material made of a salt mixture that is sealed inside of a special wrapper. It changes from solid to liquid and back again depending on the surrounding temperature. **PhaseCore 32 Elements** are not effected by humidity and react to direct heat above its activation point. Garments in a variety of cuts and materials are designed to utilize the higher activation point cooling effect of **PhaseCore 32 Elements** to reduce heat stress.

Uses: Personal Cooling, Microclimate Cooling, Computer Cooling

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

PHASECORE 32 ELEMENT HIGHLIGHTS

- Higher activation point for Cooling
- Recharges without Ice, Water, or Refrigeration
- Easy to Use and Maintain
- Effective for Hours
- Reusable
- Non-toxic, Non-Flammable

SPECIFICATIONS

	Small	Large
Activation Point:	89.6°F (32°C)	89.6°F (32°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)
Weight:	1.75 oz (50 g)	3.5 oz (100 g)
PhaseCore Element:	Non-toxic, non-flammable salt mixture sealed inside an aluminum wrapper.	

ADDITIONAL INFORMATION

How does it work?

PhaseCore 32 elements have an activation point of 90°F (32°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 32** 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 32** elements have a 10 year or 6,000 cycle life.

How does it recharge?

PhaseCore 32 elements can be recharged by storing them in an environment less than the activation point of 90°F (32°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.

When Should I Use PhaseCore 32 and not PhaseCore 28?

In extreme heat environments we recommend the use of **PhaseCore 32** to cool the body. **PhaseCore 32** will produce a cooling effect for a longer duration than **PhaseCore 28** in extremely hot environments due to the higher activation point and high heat absorption capacity. **PhaseCore 32** is recommended for users in environments greater than 110°F (43°C) for a prolonged period of time. In most of the products you can switch between **PhaseCore 28** and **32** easily. Please refer to the individual product specifications for details.

DESCRIPTION	MODEL	VEST STYLE
PhaseCore 32		
Single PhaseCore 32 Small Element	35-0032S	
Single PhaseCore 32 Large Element	35-0032	
Set of 16 PhaseCore 32 Elements	35-1632	Standard
Set of 22 PhaseCore 32 Elements	35-2232	SWEDE



PHASECORE 32 ELEMENT



SWEDE COOLING VEST



SWEDE MESH COOLING VEST



STANDARD COOLING VEST

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