

## First Line Technology PhaseCore Cooling Elements

PhaseCore Cooling Elements are a non-toxic, non-flammable phase change material (PCM) made of a salt blend that is sealed inside an aluminum wrapper. PhaseCore Cooling Elements are used within PhaseCore Cooling Vests which are available in a variety of styles and materials and are designed to utilize the cooling effects of the elements to reduce heat stress.



- Recharge at room temperature
- Recharge without ice, water, or refrigeration
- Easy to use and maintain
- Effective for 3-4 hours at a time
- Reusable, non-toxic, and non-flammable

On Ice **11 Minutes**

Freezer **17 Minutes**

Refrigerator **35 Minutes**

Room Temperature **85 Minutes**

How do they work?	Are they effective?	How are they recharged?
<p>PhaseCore Cooling 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. When heat is absorbed, the PhaseCore elements provide a comfortable and soothing cooling effect.</p> <p>PhaseCore Cooling Elements recharge and return to their solid state when the ambient temperature drops below the activation point. PhaseCore Cooling Elements are good for 1,000 cycles when stored in a cool, dry place.</p>	<p>Testing has proven that PhaseCore Cooling Elements are effective in helping combat the rise in a person's body surface temperature when in an extreme-heat environment. PhaseCore Cooling Elements are effective for up to 4 hours, however actual time varies based on physical activity, body type, environmental conditions, and garment. PhaseCore Cooling Elements are meant to prevent heat stress situations and do not treat heat stress once a person is experiencing symptoms.</p>	<p>PhaseCore Cooling Elements can be recharged by storing in an environment less than the activation point of 82.4°F (28°C), however, recharging periods may be lessened when in cooler 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, and elements are completely recharged when they return to a solid state.</p>