



# Cool58 Phase Change Pack Inserts

Enclosed you will find phase change pack insert(s) for Polar Phase Change cooling garments. This technology was originally created to protect the Space Shuttle Emergency Recovery Team from high heat situations and has several unique characteristics.

- “Freezes” at 58° (14.5 degree C) providing a comfortable cooling experience.
- Packs can be recharged with ice and water in less than 20 minutes. Can also be charged in a refrigerator or freezer in about an hour.

The instructions for use are very simple. Keep in mind that the cooling packs will turn to a white, semi-solid “waxy” material once they are charged. These packs will inevitably charge themselves when exposed to an environment where the temperature is at or less than 58° F. Depending on the time of year and your geographical proximity to cold weather, the packs may arrive completely or partially charged.

1. Remove packs from packaging material and either submerge completely in ice water for 20 minutes or place flat without stacking in a freezer for about an hour.
2. Once packs are fully charged (they will be completely solid), dry them off and insert packs into garment’s internal pockets.
3. Fit garment to wearer in a “snug” fashion as the cooling packs cool conductively (heat transferred directly from body into cooling packs).
4. Remove cooling packs for regeneration once they are 90% or more clear liquid.
5. Cooling duration will vary due to application, environment and physiological variables.

**Note:** Storing these pack sets in a refrigerator or freezer for long periods of time will not adversely affect any aspect of the product. Just keep in mind that the packs will come out solid, so be sure to lay the packs flat to insure a comfortable fit in the garment.

**Caution:** In case of pack rupture or leakage, discontinue use immediately. Although encapsulated material is non-toxic, it can cause a skin rash. Flush exposed area with warm, soapy water and wash with baking soda. Contact physician immediately if swallowed or in case of eye exposure. Wash all exposed garments with baking soda and detergent in warm water. **DO NOT EXPOSE COOLING PACKS TO HEATED EQUIPMENT AND/OR ENVIRONMENTS EXCEEDING 300° F.**

**If you require an MSDS or have any questions/comments, please call 800-763-8423.**