

NON-HAZARDOUS SAFE

Not only do TCP's PCMS keep you safe, but also keep your food safe to eat.

Dry ice can burn the skin, and the gas itself if not vented correctly, can cause asphyxiation, or even explosion. Dry ice keeps food frozen to a temperature of -109 °F.

Freezing foods at this drastically cold temperature can tamper with the freshness of the food. Frozen foods may dry out, causing freezer burn or a loss in quality.

Coming in two below freezing temperature variations: -16°C (3.2°F) frozen, and -21°C (-5.8°F) ultra-cold - our PCMs are engineered to solidify at different temperatures, allowing them to maintain a constant exact temperature in a frozen range that we desire.

Our PCMs are 100% safe. The PCM changes from a solid to a liquid and back to a solid at a precise temperature, within a pack that easily slips in to a carrying tote. They are as safe and easy to use as a lunch box or a cooler.

Replace dry ice for your next food delivery with our non-toxic and green PCMs.
Phase Change Material

TCP's Phase Change Materials (PCMs) are equipped to store and release large amounts of energy — maintaining a temperature within a specific range.

Thermal Custom Packaging Totes are currently being used to store and transport the mRNA COVID vaccine at - 21 degrees Centigrade with its proprietary PC-21 solution.

Thermal Custom Packaging



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Thermal Custom Packaging

PHASE CHANGE MATERIAL:

GREEN. ENVIRONMENTALLY FRIENDLY.

RECYCLABLE. REUSABLE.

NON-HAZARDOUS. SAFE.

Frozen Food Delivery

Replace Hazardous Dry Ice

TCP's PCMs have significant advantages over dry ice and are revolutionizing the frozen food delivery business.



888-570-2250
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Frozen Food Delivery

Frozen food delivery has skyrocketed, becoming an essential means for keeping homes stocked, refrigerators full, and bellies satisfied.

Currently food delivery is possible using insulated packaging and dry ice to keep perishable food frozen in transit. Despite its use over many years, it is not the best option. Dry ice is an expensive, ongoing cost as well as a hazard to the environment and potential hazard while being transported.

TCP's -21° and -16° Phase Change Material (PCM) (PC-16 and PC-21) make frozen food delivery more environmentally friendly, safer, and easier to use than it has ever been before. Long term reusing TCP PCM's, in a closed loop delivery system, are much more cost effective than dry ice.

Green Environmentally Friendly

TCP's PCMs are a green product, meaning they are a sustainable product designed to minimize environmental impacts during their whole life cycle and even after they are of no use.

Our green PCM products are identified as having two basic goals - reducing waste and maximizing resource efficiency.

Dry ice is compressed frozen CO₂, which is classified as a hazardous material that can not only be harmful in its use but can have negative impacts on the environment when it is created and disposed.

Dry ice also is impossible to maintain and evaporates back into CO₂ as soon as it is formed.

Our alternative to dry ice provides an environmentally friendly, green option for the world. Our PC-21s and PC-16s only require brief time in the freezer to charge the PCM, but do not require long term freezer use or storage.

Our PCM technology is green, non-toxic, sustainable, reusable, and the outer shells of our PCMs are HDPE plastic and therefore recyclable, helping us continue our mission to maintain a small carbon footprint. PC-21 and PC-16 can sit for years and be reused thousands of times. The products are made from salts, keeping them safe for the environment and safe for you.

Recyclable, Reusable

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Thermal Custom Packaging Totes are currently being used to store and transport the mRNA COVID vaccine at -21 degrees Centigrade with its proprietary PC-21 solution.

TCP's proprietary PCMs will precisely maintain the required payload temperature and when stored in our insulated reusable totes (available in three sizes), it can safely transport biological evidence at the correct parameters for many hours.

