PHASE CHANGE MATERIALS & EUTECTIC SOLUTIONS SPECIAL APPLICATIONS

PlusICE Mixtures of non-toxic Eutectic solutions have freezing and melting points higher or lower than those of water and offer Thermal Energy Storage capability between -62 °C and 117 °C. They can be supplied as a raw material or alternatively encapsulated either in our standard or customer custom-made containers. We also supply ready-made solutions for field filling applications. We also offer a number of Licensing and Know-How Transfer Options for local manufacturing around the world.

PlusICE solutions have been successfully applied for a wide range of applications in both heating and cold energy storage products/processes around the world. Our Organic and Salt based solutions can be modified to suit a specific application in order to provide the best possible thermodynamic and handling characteristics.

A large number of manufacturers and research institutions around the world produced impressive Global PCM applications from a simple personal cooling unit to large scale electronic chamber passive cooling, water heat and cooling storage, office passive cooling, dry wall applications.

Our research and development over the last decade produced not only the widest choice of PCM temperature range but we can modify the solutions to suit almost any applications. We have developed a number of techniques to produce liquid, thickened (paste or jelly-like), powder, granule or solid formats as illustrated in the following pictures.

The variation of these products find their way to the market in many different forms. The most familiar products are picnic coolers and transport Eutectic plates, underfloor heating and chilled water TES applications. PCMs are also successfully applied to provide Passive Cooling and Heating applications. PCMs are even applied to dry plaster boards and concrete mixing applications for buildings and industry.

The extensive range between -62 °C and 117 °C offered by PlusICE opens completely new windows for a wide range of new applications and the application variety is increasing day by day. The only limit of how and where to apply these energy saving and environmentally friendly solution is the imagination of design engineers.

We can not only supply PCM solutions to suit customer’s own design but also we can develop custom-made products for any specific application from conception to completion.

TECHNICAL SUPPORT;

We offer full system design support to assist in proper selection and integration into existing or new product / installations as part of our customer commitment.

Please consult our technical sales at sales@pcmproducts.net for your specific application or visit our web site www.pcmproducts.net.

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PlusICE Organic Solution Variations

- Solutions
- Clear Rubber PCM Sheet
- Aluminium Foil PCM Sheet
- Granule
- Beads
- Rubber Thickness
- Dust Version
- Moulded Rubber PCM Sleeve
PlusICE Organic Solution Variations

Moulded Rubber PCM Box

Al. Foil PCM Sheet

PCM Rubber Balls

PCM Rubber Balls