# MPCM 28D

## Microencapsulated Phase Change Material
Phase Change: 28°C, 82.4°F

## DESCRIPTION

**Micro-encapsulated phase change materials (MPCMs)** is an effective solution that combines reliable thermal control with excellent mechanical stability and easy dispersibility. These characteristics allow it to be used in a wide range of formulations and manage temperature peaks for a variety of applications.

## APPLICATIONS

The applications for phase change materials are limited only by the imagination. Some common uses for MPCM at this temperature include:

- **Bedding** – to provide desired human comfort requirements such as a cool touch effect to mattresses, pillows, and mattress ticking.

- **Building Materials** – to increase the energy efficiency of residential and commercial buildings.

- **Consumer Textiles** – to provide desired human comfort requirements such as cool touch effect to fabrics or the ability to keep people cool when material is worn close to the body.

## PACKAGING

Dry powder is generally shipped in 55-gallon fiber drums of 140 pounds net weight or in super sacks of 650 pounds.

## PROPERTIES

**MPCM 28D** typically exhibits these general properties:

| Typical Properties | |
|---|---|
| Appearance | White to slightly off-white color |
| Form | Dry powder (≥ 97% solids) |
| Particle size (mean) | 15-30 micron |
| Melting point | 28°C, 82.4°F (±2°C) |
| Heat of fusion | ~185J/g (minimum ≥175 J/g) |

## HEALTH AND SAFETY

Please refer to the Safety Data Sheet (SDS) for necessary safety and handling precautions for this product.

Visit **www.microteklabs.com** or call **937.236.2213** for more information on your thermal management needs.

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