

# MPCM 28

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

This product is generally shipped in either 55-gallon fiber drums of 245 pounds net weight (175 pounds nominal dry weight) or in super sacks of 1,000 pounds (approximately 750 pounds nominal dry weight).

## PROPERTIES

MPCM 28 typically exhibits these general properties:

### Typical Properties

Appearance	White to slightly off-white color
Form	Wet cake ( $\geq 73\%$ solids)
Particle size (mean)	14-24 micron
Melting point	28°C, 82.4°F ( $\pm 2^\circ\text{C}$ )
Heat of fusion	$\sim 185\text{J/g}$ (minimum $\geq 175\text{J/g}$ )

## HEALTH AND SAFETY

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

Visit [www.microteklabs.com](http://www.microteklabs.com) or call 937.236.2213 for more information on your thermal management needs.

IMPORTANT NOTE: This data has been compiled from testing that Microtek Labs believes reliable and is supplied for informational purposes only. Microtek Labs encourages purchasers to validate this data and the product's fitness for use in the purchaser's process by performing their own tests.

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