

# MPCM 32

Microencapsulated Phase Change Material  
Phase Change: 32°C, 89.6°F



## DESCRIPTION

Micro-encapsulated phase change materials (MPCMs) are 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 32 typically exhibits these general properties:

### Typical Properties

Appearance	White to slightly off-white color
------------	-----------------------------------

Form	Wet cake ( $\geq 68\%$ solids)
------	--------------------------------

Particle size (mean)	14-24 micron
----------------------	--------------

Melting point	32°C, 89.6°F ( $\pm 2^\circ\text{C}$ )
---------------	--

Heat of fusion	$\geq 160$ J/g
----------------	----------------

## HEALTH AND SAFETY

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

Visit [www.microtek-labs.com](http://www.microtek-labs.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.

MT20-014 MPCM 32W PDS © 2020 Microtek Laboratories, Inc. All Rights Reserved.  
All other trademarks are the properties of their respective owners.

MPDS3300-0018

Revision 1

Effective Date: 04/30/2020

**microtek**  
laboratories, inc.