

MPCM 43

Microencapsulated Phase Change Material

Phase Change: 43°C, 109.4°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:

- **Electronics** – for cooling electrical components or maintaining constant temperatures for scientific instrumentation.

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).

HEALTH AND SAFETY

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

PROPERTIES

MPCM 43 typically exhibits these general properties:

Typical Properties

Appearance	White to slightly off-white color
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Form	Wet Cake ($\geq 68\%$ solids)
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Particle size (mean)	14-24 micron
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Melting point	43°C, 109.4°F ($\pm 2^\circ\text{C}$)
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Heat of fusion	≥ 210 J/g
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Visit 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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Revision 1

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