

# nextek<sup>®</sup> 24

Microencapsulated Phase Change Material

Phase Change: 24°C, 75.2°F



## DESCRIPTION

nextek is the next level in PCM technology and performance. Nextek's patented capsule wall technology combines robustness, high thermal stability, and easy dispersability. It is versatile enough to be used in a variety of uses and formulations.

## APPLICATIONS

The applications for phase change materials are limited only by the imagination. Some common uses for nextek PCM 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. nextek has helped companies achieve Oeko-Tex<sup>®</sup> Standard 100 Class I certification.

## 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

nextek 24 typically exhibits these general properties:

### Typical Properties

Appearance	White to slightly off-white color
Form	Wet cake ( $\geq 70\%$ solids)
Particle size (mean)	14-24 micron
Melting point	24°C, 75.2°F ( $\pm 2^\circ\text{C}$ )
Heat of fusion	$\geq 170$ 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.

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**microtek**  
laboratories, inc.