

# nextek 24D

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® Standard 100 Class I certification.

## PACKAGING

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

## PROPERTIES

nextek 24D typically exhibits these general properties:

### Typical Properties

Appearance White to slightly off-white color

Form Dry powder ( $\geq 97\%$  solids)

Particle size (mean) 15-30 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.