

Smart

Materials

Solutions

Heat Storage Microcapsule

Material Sales Team / Insilico

Sci

Services

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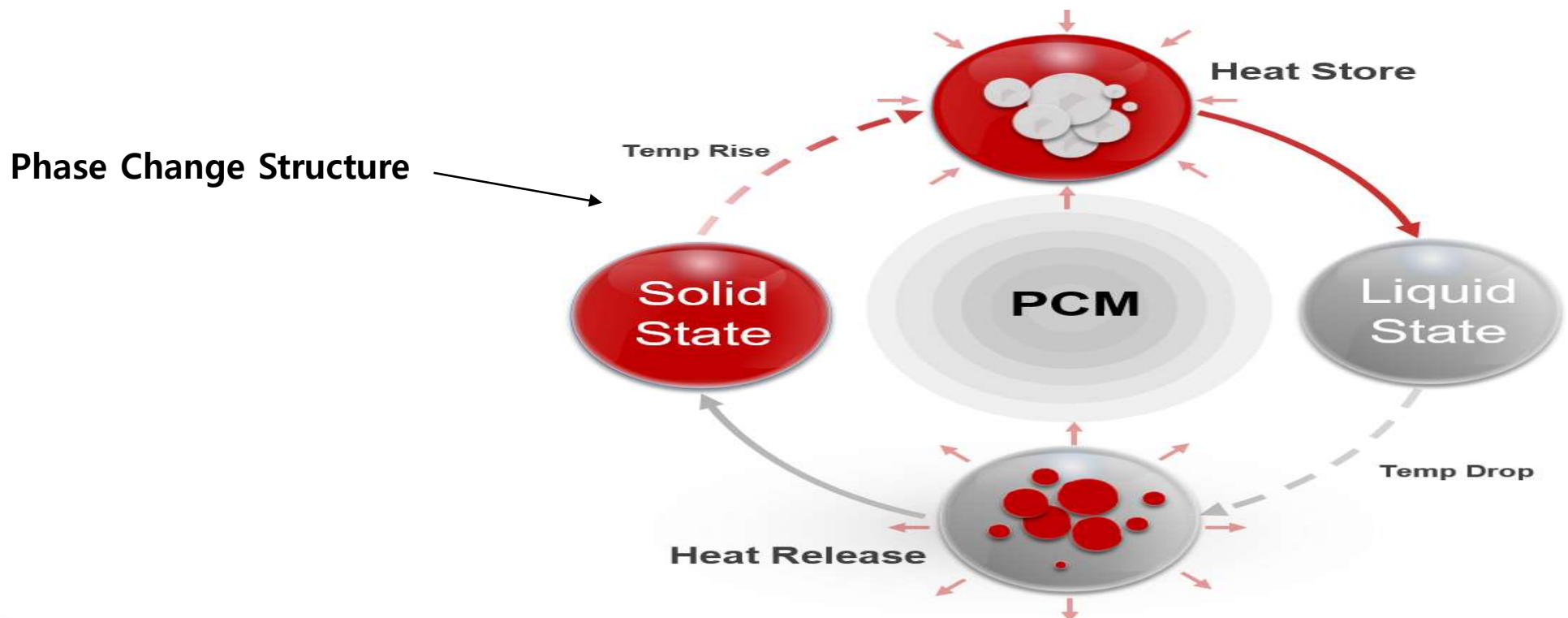
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01

Product Overview

Heat storage Microcapsule(Thermoabl)

Thermoball is including phase change material,
A functional product that absorbs heat when the surrounding temperature rises
and slowly releases heat when the temperature decreases.



Heat storage Microcapsule(Thermoabl)

PCM microcapsule keeps trying to maintain temperature by storing, releasing heat depending on activation point.

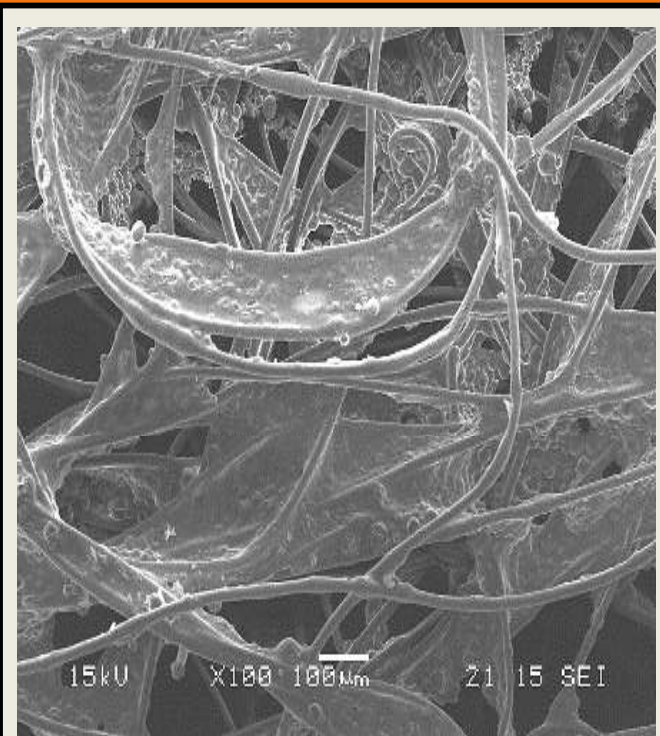
How to work



Heat storage Microcapsule(Thermoabl)

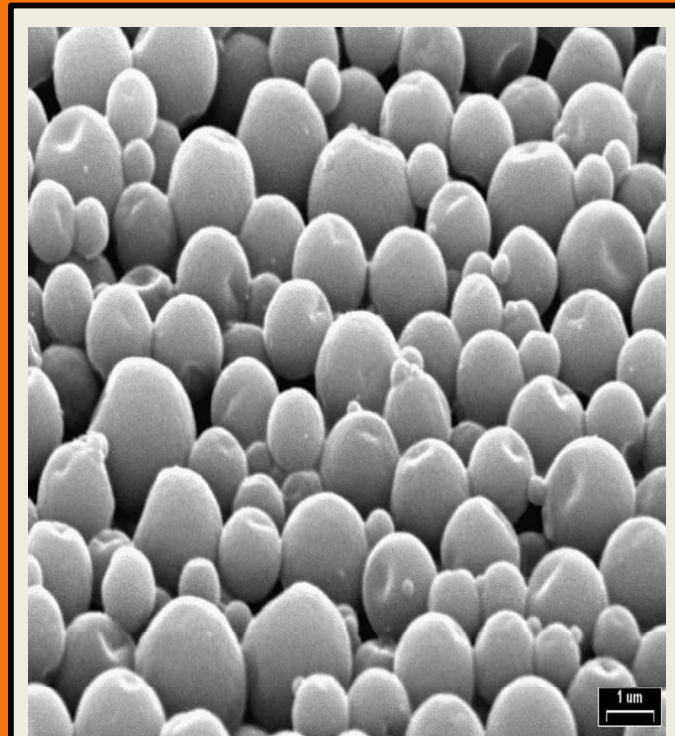
Coated fabric with thermoball

The coated fabric was taken with a microscope and the capsule was well coated.



Micrograph

It is Micrograph, Particle size can be adjusted depending on use.



02

Product Application

Application (1/4)

Textile



Improves thermal comfort by providing cooling and thermal effect

Help for suitable temperature

01.

Thermostatic function
Semi-permanent maintenance

02.

Being able to be applied for various fibers
such as socks and gloves

03.



Application(2/4)

Electronic

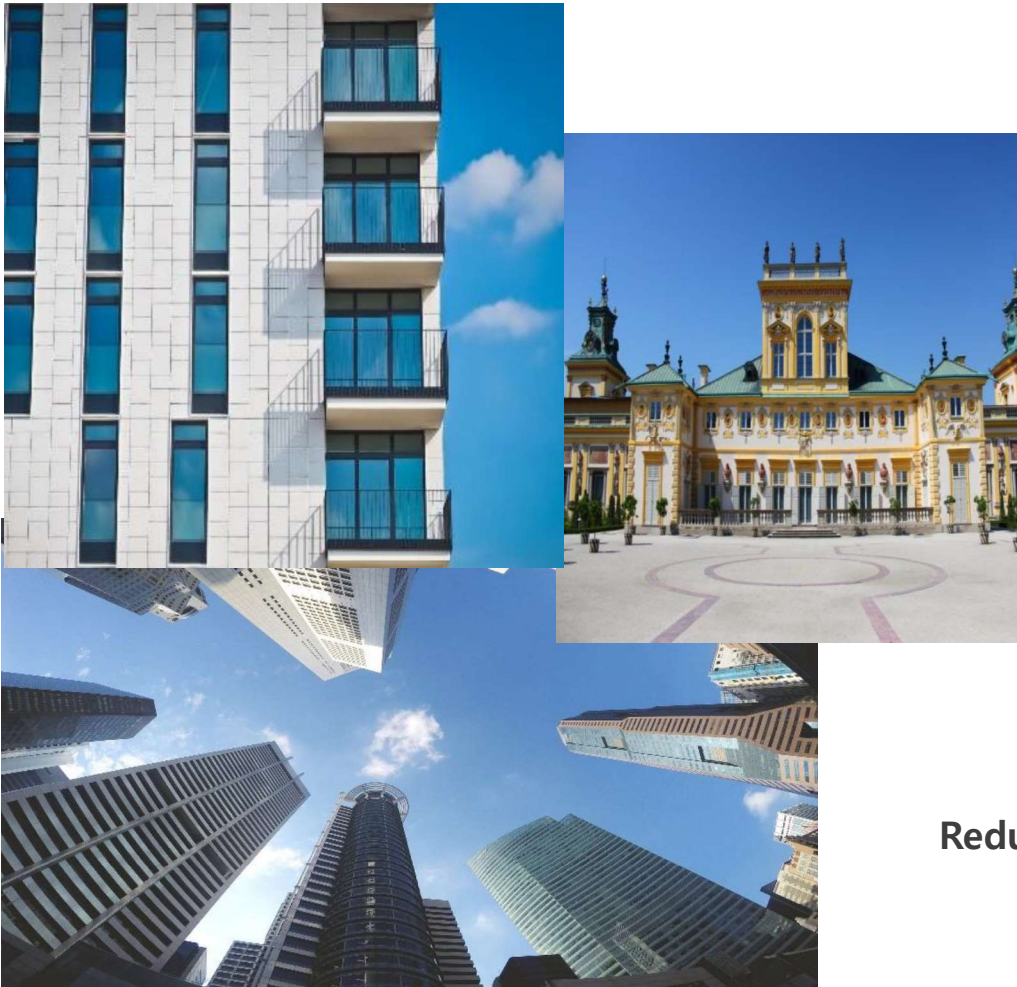
If it is used for Battery, It enables to control Heat economically

01. Prevent potential fire or explosion hazards
02. Make a battery life much longer
By controlling heat
03. Absorb the heat generated during battery discharge by heat storage function



Application (3/4)

Building and Construction



Effectively control the air inside by building material with thermoball, help energy saving as well.

Maintains pleasant indoor temperature

01.

Eco-Friendly and effect on energy savings

02.

Reducing heating and cooling cost at building

03.

Application (4/4)

Cooling Accessory

It can be applied for daily necessities that need heat control, such as bedding, shoe insoles, cooling pads

01. Cooling effect in Summer
Warming effect in Winter
02. Provide the appropriate temperature
03. Possible for applying to various stuff
Such as Car Seat, Sitting cushion



03

Product Range

Product Range



Hot Weather
For Summer
Thermoball 35



Four Seasons
For four seasons
Thermoball 28



Cool Winter
For Winter
Thermoball 18

Customized product based on application : Thermoball 45, 55, 70

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THANKS FOR YOUR ATTENTION

