

# ClimSel™ C48



Typically used for storing of solar or free energy, as well as for thermal management of electronics and batteries.

## Product description

ClimSel™ C48 is a salt hydrate based Phase Change Material that works by either charging or discharging energy at different temperatures. ClimSel™ C48 is delivered in various sizes of aluminium foil pouches, as a primary packaging. The main components are sodium acetate, water and additives.

## Physical data

Phase change temperature: Solid	48°C / 118°F
Phase change temperature: Liquid	53°C / 127°F
Latent heat of fusion (see curve)	55 Wh/kg – 197 kJ/kg (±10%)
Specific heat capacity: Solid	1.7 Wh/kg – 6 kJ/kg (±10%)
Specific heat capacity: Liquid	0.8 Wh/kg – 3 kJ/kg (±10%)
Density: Liquid	1.3 kg/l
Thermal conductivity: Solid	0.96 W/mK (±10%)
Thermal conductivity: Liquid	0.55 W/mK (±10%)
pH Value	Approx. 7-8

## Usage guidelines

- Recommended storage temperature: 15°C to 25°C / 59°F to 77°F.
- Recommended min. and max. temperature is 15°C to 65°C / 59°F to 149°F.
- Preparation before use depends on application conditions.
- Handle the ClimSel™ C48 pouch with care and do not bend when solid.
- Do not use damaged pouch, as the product functionality will be compromised.
- The product should not be opened or tampered with.
- If in contact with skin, wash with soap and water.
- If in contact with eyes, immediately flush with plenty of water.

## During storage:

Shall not be exposed to direct sunlight, vibrations, sharp objects, additional top load pressure or uncared handling.

# 48°C

Climator is one of the world's leading companies within Phase-change material (PCM) and temperature stabilization solutions.

Through our know-how, PCM expertise and innovation power, we develop project-based solutions that solve our customers' temperature stabilization and control problems.

We operate within five application areas.



Transport



Room



Body



Equipment



Safety

## Climator Sweden AB

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SWEDEN

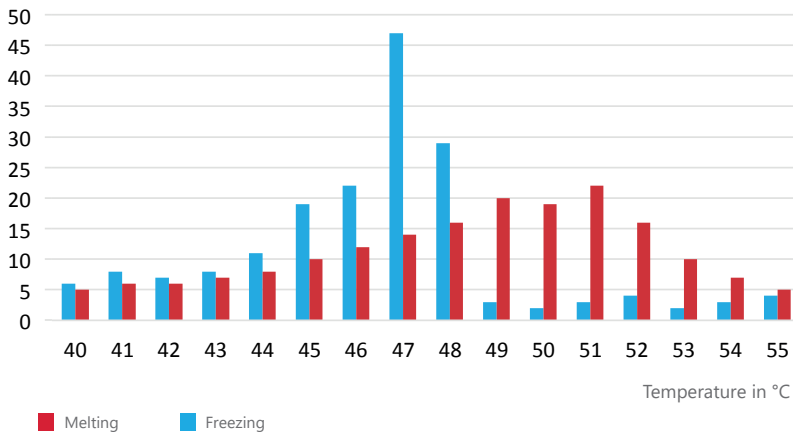
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# ClimSel™ C48

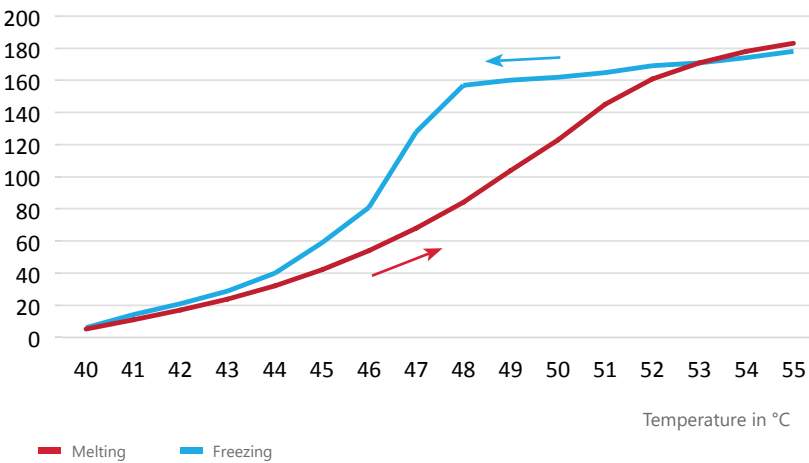
# 48°C

## Phase change properties

Part Enthalpy (J/g)



Enthalpy (J/g)



## Estimated functionality time

ClimSel™ C48 can be used/cycled as long as the primary packaging is kept uncompromised and it is handled in accordance with usage guidelines. The product will only work as declared for as long as the pouch is intact. The estimated functionality time can be affected by type of application and other external factors.

[Contact Climator for further information.](#)

## Waste Management

For disposal of the product please contact your federal, state or local waste management organisation. The product should be treated in accordance with requirements for EWC (=European Waste code) = 060314.

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