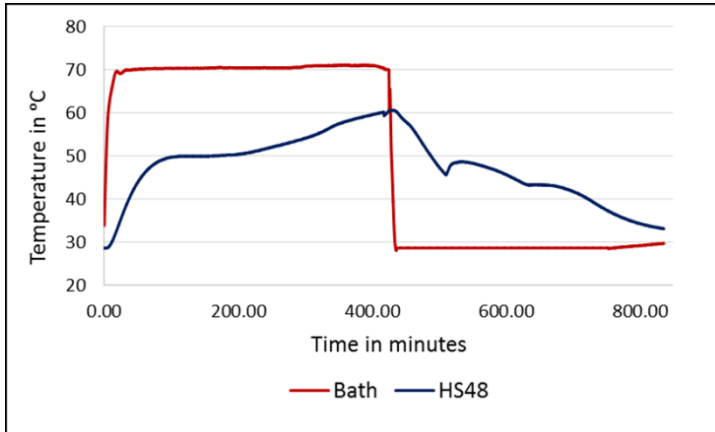


# TECHNICAL DATA SHEET OF savE® HS48

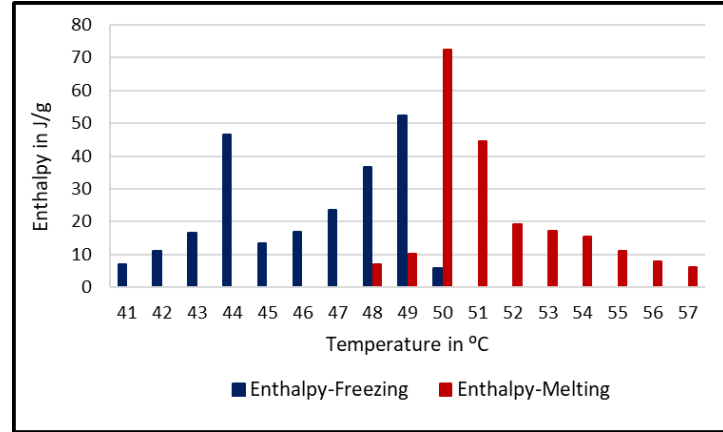
## Technical Specification:

Product : savE® HS48  
 Description : Inorganic Phase Change material  
 Appearance : Solid with undissolved particles @25°C

## Phase transition temperature range and stored thermal energy\*



Temperature vs time curve



Enthalpy vs temperature curve

Property	Value**	Test Method	Test Conditions (if any)
<b>Phase Transition Temperature</b>			
<b>Melting</b>	50 °C	PLUSS® T-History	@ 60 °C Air Bath
<b>Freezing</b>	49 °C	PLUSS® T-History	@ 38 °C Air Bath
<b>Latent Heat/Enthalpy</b>			
<b>Liquid</b>	211 kJ/kg	PLUSS® T-History	@ 46-55 °C
<b>Solid</b>	225 kJ/kg	PLUSS® T-History	@ 50-41 °C
<b>Density</b>			
<b>Liquid</b>	1380 kg/m <sup>3</sup>	ASTM D891-95	@ 60 °C
<b>Solid</b>	1400 kg/m <sup>3</sup>	ASTM D891-95	@ 25 °C
<b>Specific Heat</b>			
<b>Liquid</b>	3.47 kJ/kgK	PLUSS® T-History	@ 65 °C
<b>Solid</b>	3.10 kJ/kgK	PLUSS® T-History	@ 30 °C
<b>Thermal Conductivity</b>			
<b>Liquid</b>	0.46 W/mK	KD2Pro	@ 60 °C
<b>Solid</b>	0.60 W/mK	KD2Pro	@ 25 °C
<b>Cycling stability</b>	~300 Under test	PLUSS® Internal	
<b>Maximum Operating Temperature</b>	75 °C		
<b>Flammability</b>	No		
<b>Flash Point</b>	NA		

\* Determined by T-history

\*\*Nominal Valu[es]. Actual values mentioned in test certificate.

Compatibility data available on request.

PCM is available in bulk, pouches or in containers of choice (Refer to Document **301\_PCM Encapsulation**).

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