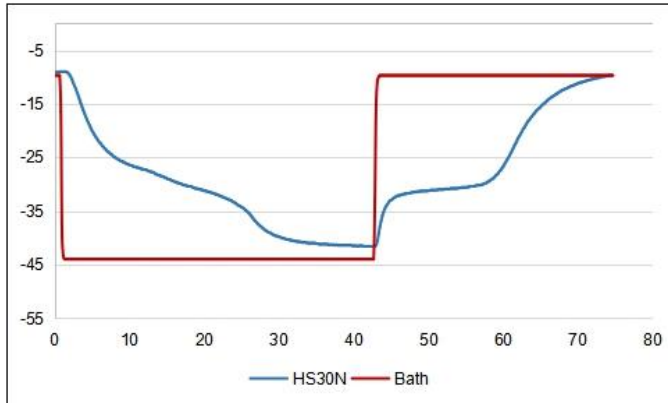


TECHNICAL DATA SHEET OF savE® HS30N

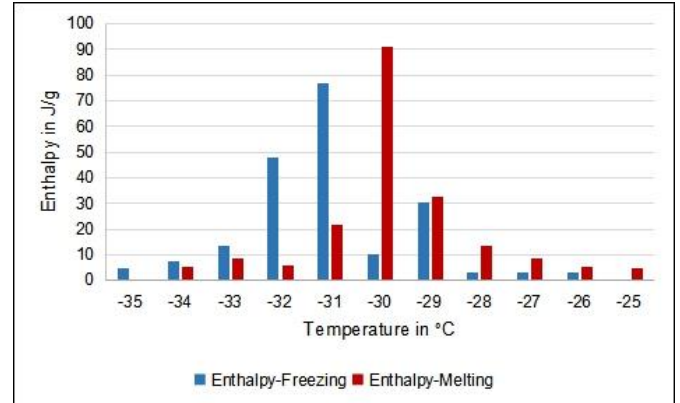
Technical specification:

Product : savE® HS30N
 Description : Inorganic phase change material
 Appearance : Watery suspension liquid @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)
Phase transition temperature			
Melting	-30 °C	PLUSS® T-History	@ -23 °C Liquid bath
Freezing	-31 °C	PLUSS® T-History	@ -33 °C Liquid bath
Nucleation temperature	-34 °C	PLUSS® T-History	@ -33 °C Liquid bath
Latent heat/enthalpy			
Melting	197 kJ/kg	PLUSS® T-History	@ -25 to -35 °C
Freezing	201 kJ/kg	PLUSS® T-History	@ -35 to -25 °C
Density			
Liquid	1425 kg/m ³	ASTM D891-95	@ 30 °C
Solid	1460 kg/m ³	ASTM D891-95	@ -44 °C
Specific heat			
Liquid	2.7 kJ/kgK	PLUSS® T-History	@ 30 °C
Solid	2.1 kJ/kgK	PLUSS® T-History	@ -40 °C
Thermal conductivity			
Liquid	NA		
Solid	NA		
Number of cycles tested	~2000	PLUSS® Internal	
Maximum operating temperature	90 °C		
Flammability	No		

* 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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