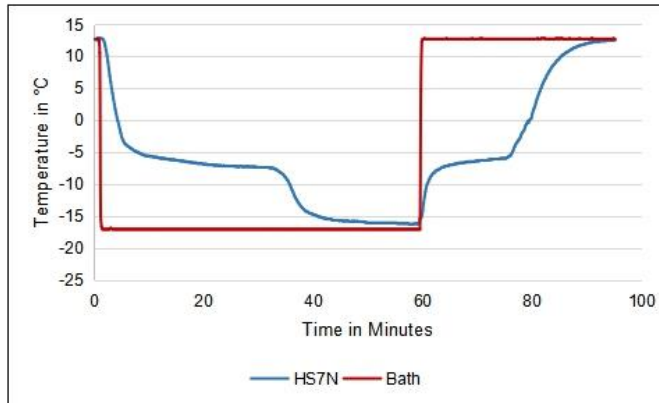


TECHNICAL DATA SHEET OF savE® HS7N

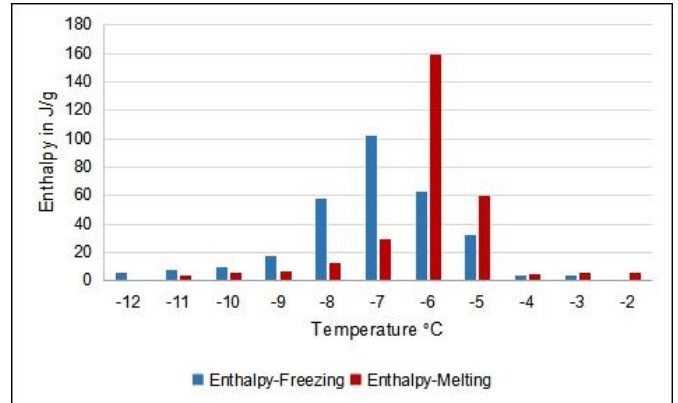
Technical specification:

Product	:	savE® HS7N
Description	:	Inorganic phase change material
Appearance	:	Translucent liquid with white sediment @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	-6 °C	PLUSS® T-History	@ 3 °C Liquid bath
Freezing	-7 °C	PLUSS® T-History	@ -17 °C Liquid bath
Nucleation temperature	-7 °C	PLUSS® T-History	@ -17 °C Liquid bath
Latent heat/enthalpy			
Liquid	294 kJ/kg	PLUSS® T-History	@ -12 to -2 °C
Solid	303 kJ/kg	PLUSS® T-History	@ -2 to -12 °C
Density			
Liquid	1120 kg/m ³	ASTM D891-95	@ 30 °C
Solid	1026 kg/m ³	ASTM D891-95	@ -20 °C
Specific heat			
Liquid	3.5 kJ/kgK	PLUSS® T-History	@ 30 °C
Solid	2.0 kJ/kgK	PLUSS® T-History	@ -10 °C
Thermal conductivity			
Liquid	0.55 W/mK	KD2Pro	@ 30 °C
Solid	1.76 W/mK	KD2Pro	@ -10 °C
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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