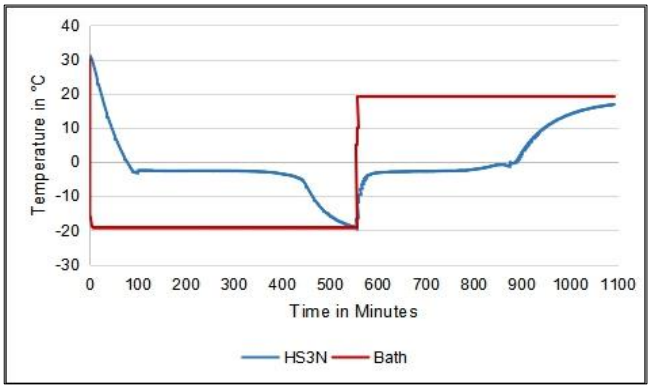
TECHNICAL DATA SHEET OF savE® HS3N

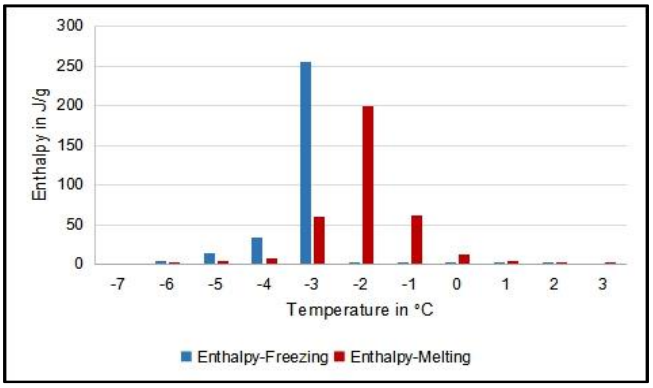
Technical specification:

Product	:	*savE*® HS3N
Description	:	Inorganic phase change material
Appearance	:	Transparent 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	-2 °C	PLUSS® T-History	@ 10 °C Liquid bath
Freezing	-3 °C	PLUSS® T-History	@ -13 °C Liquid bath
Nucleation temperature	-5 °C	PLUSS® T-History	@ -13 °C Liquid bath
Latent heat/enthalpy			
Melting	359 kJ/kg	PLUSS® T-History	@ -7 to 3 °C
Freezing	329 kJ/kg	PLUSS® T-History	@ 3 to -7 °C
Density			
Liquid	1060 kg/m^3	ASTM D891-95	@ -20 °C
Solid	985 kg/m^3	ASTM D891-95	@ 30 °C
Specific heat			
Liquid	3.98 kJ/kgK	PLUSS® T-History	@ 30 °C
Solid	1.80 kJ/kgK	PLUSS® T-History	@ -10 °C
Thermal conductivity			
Liquid	0.35 W/mK	KD2Pro	@ 30 °C
Solid	2.2 W/mK	KD2Pro	@ -11 °C
Number of cycles tested	~1000	PLUSS® Internal	
Maximum operating temperature	80 °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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