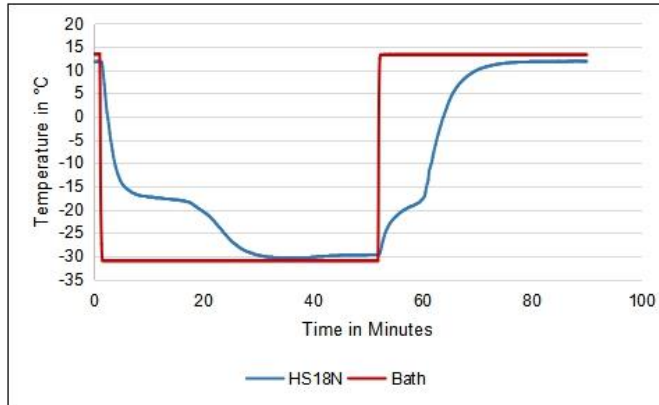


TECHNICAL DATA SHEET OF savE® HS18N

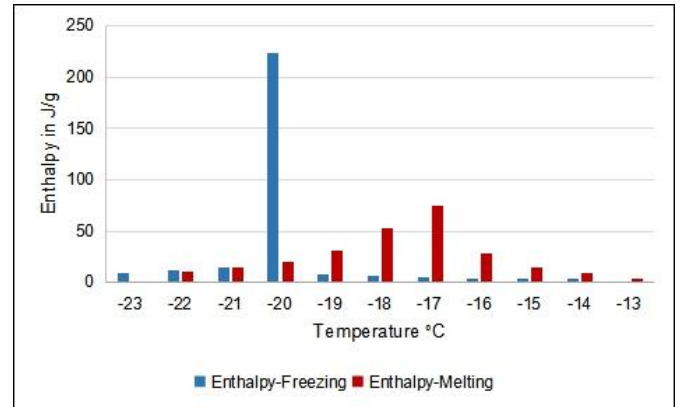
Technical specification:

Product : savE® HS18N
 Description : Inorganic phase change material
 Appearance : Clear liquid with white sediment @25 °C

Phase transition temperature and stored thermal energy*



Temperature vs time curve



Enthalpy vs temperature curve

Property	Value**	Test method	Test conditions (if any)
Phase transition temperature			
Melting	-18 °C	PLUSS® T-History	@ -8 °C Liquid bath
Freezing	-18 °C	PLUSS® T-History	@ -28 °C Liquid bath
Nucleation temperature	-17 °C	PLUSS® T-History	@ -28 °C Liquid bath
Latent heat/enthalpy			
Melting	260 kJ/kg	PLUSS® T-History	@ -23 to -13 °C
Freezing	290 kJ/kg	PLUSS® T-History	@ -13 to -23 °C
Density			
Liquid	1095 kg/m ³	ASTM D891-95	@ 28 °C
Solid	1083 kg/m ³	ASTM D891-95	@ -30 °C
Specific heat			
Liquid	3.48 kJ/kgK	PLUSS® T-History	@ 30 °C
Solid	3.90 kJ/kgK	PLUSS® T-History	@ -23 °C
Thermal conductivity			
Liquid	0.44 W/mK	KD2Pro	@ 30 °C
Solid	NA		
Number of cycles tested	~3000	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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