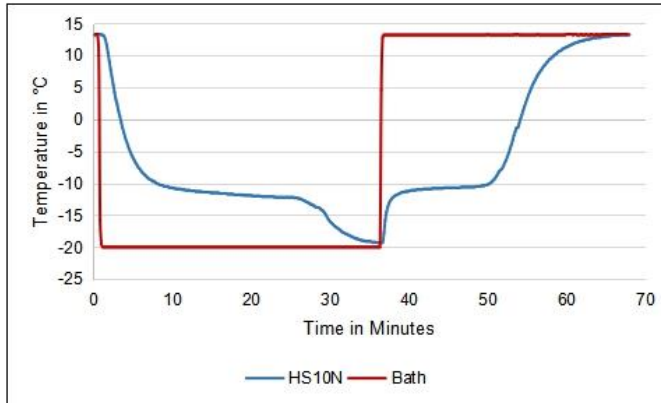


TECHNICAL DATA SHEET OF savE® HS10N

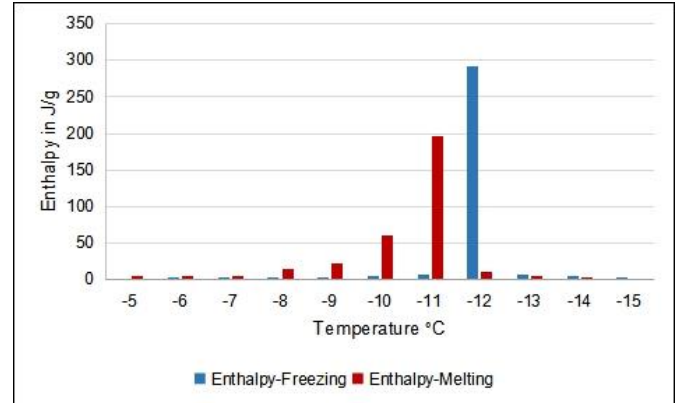
Technical specification:

Product : savE® HS10N
 Description : Inorganic phase change material
 Appearance : Off-white liquid/grey colored 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	-10 °C	PLUSS® T-History	@ 0°C Liquid bath
Freezing	-11 °C	PLUSS® T-History	@ -20°C Liquid bath
Nucleation temperature	-11 °C	PLUSS® T-History	@ -20°C Liquid bath
Latent heat/enthalpy			
Melting	330 kJ/kg	PLUSS® T-History	@ -15 to -5 °C
Freezing	333 kJ/kg	PLUSS® T-History	@ -5 to -15 °C
Density			
Liquid	1125 kg/m ³	ASTM D891-95	@ 30 °C
Solid	1057 kg/m ³	ASTM D891-95	@ -20 °C
Specific heat			
Liquid	3.40 kJ/kgK	PLUSS® T-History	@ 30 °C
Solid	1.9 kJ/kgK	PLUSS® T-History	@ -12 °C
Thermal conductivity			
Liquid	0.60 W/mK	KD2Pro	@ 30 °C
Solid	4.25 W/mK	KD2Pro	@ -12 °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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