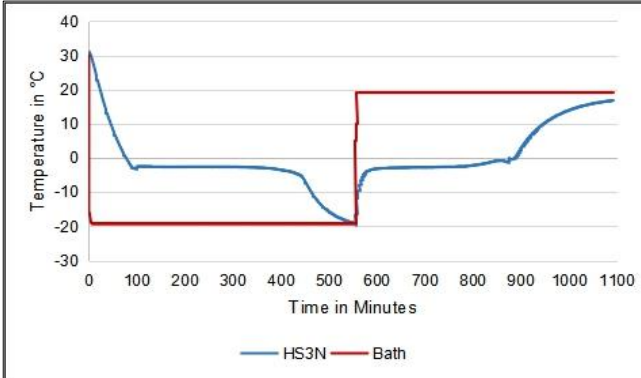


# TECHNICAL DATA SHEET OF savE® HS3N

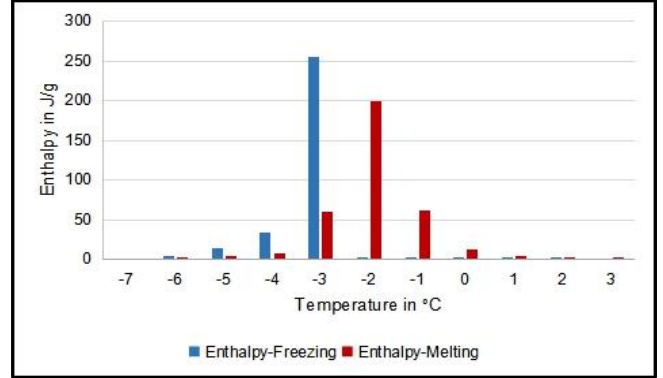
## Technical specification:

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 <sup>3</sup>	ASTM D891-95	@ -20 °C
Solid	985 kg/m <sup>3</sup>	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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