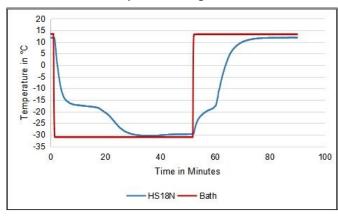
TECHNICAL DATA SHEET OF savE® HS18N

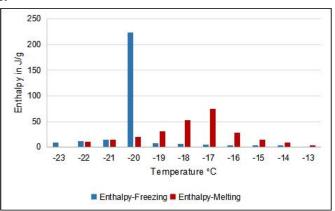
Technical specification:

Product : savE® HS18N

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

Phase transition temperature 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 Freezing Nucleation temperature	-18 °C -18 °C -17 °C	PLUSS® T-History PLUSS® T-History PLUSS® T-History	@ -8 °C Liquid bath @ -28 °C Liquid bath @ -28 °C Liquid bath
Latent heat/enthalpy Melting Freezing	260 kJ/kg 290 kJ/kg	PLUSS® T-History PLUSS® T-History	@ -23 to -13 °C @ -13 to -23 °C
Density Liquid Solid	1095 kg/m ³ 1083 kg/m ³	ASTM D891-95 ASTM D891-95	@ 28 °C @ -30 °C
Specific heat Liquid Solid	3.48 kJ/kgK 3.90 kJ/kgK	PLUSS® T-History PLUSS® T-History	@ 30 °C @ -23 °C
Thermal conductivity Liquid Solid	0.44 W/mK NA	KD2Pro	@ 30 °C
Number of cycles tested	~3000	PLUSS® Internal	
Maximum operating temperature	90 °C		
Flammability	No		

^{*} Determined by T-history

Compatibility data available on request.

PCM is available in bulk, pouches or in containers of choice (Refer to Document 301_PCM Encapsulation).

Pluss Advanced Technologies Ltd.

Doc 017_PCM_HS18N_TDS Version no.-R0,15-Feb-2022

Floor Tower B – Pioneer Urban Square, Sec 62, Gurugram-122101, Haryana, India Telephone: +91 - 124 - 4309490/91/92 E-mail: info@pluss.co.in | Web: www.pluss.co

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^{**}Nominal Valu[es. Actual values mentioned in test certificate.