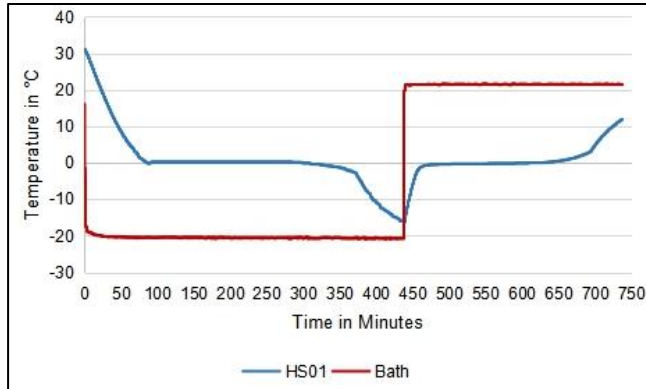


TECHNICAL DATA SHEET OF savE® HS01

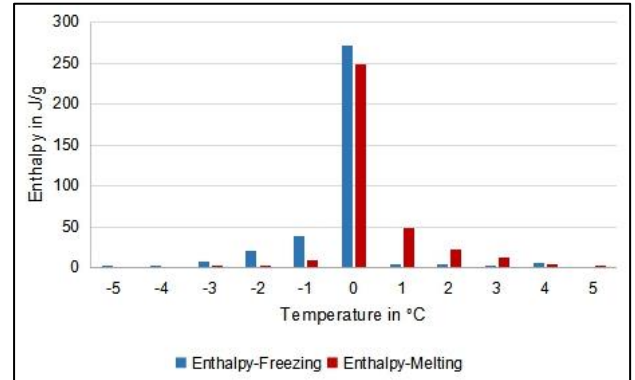
Technical specification:

Product : savE® HS01
 Description : Inorganic phase change material
 Appearance : Clear 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	0 °C	PLUSS® T-History	@ 11°C Liquid bath
Freezing	0 °C	PLUSS® T-History	@ -10°C Liquid bath
Nucleation temperature	0 °C	PLUSS® T-History	@ -10°C Liquid bath
Latent heat/enthalpy			
Melting	359 kJ/kg	PLUSS® T-History	@ -5 to 5 °C
Freezing	364 kJ/kg	PLUSS® T-History	@ 5 to -5 °C
Density			
Liquid	1010 kg/m ³	ASTM D891-95	@ 30 °C
Solid	924 kg/m ³	ASTM D891-95	@ -20 °C
Specific heat			
Liquid	3.9 kJ/kgK	PLUSS® T-History	@ 30 °C
Solid	2.0 kJ/kgK	PLUSS® T-History	@ -10 °C
Thermal conductivity			
Liquid	0.55 W/mK	KD2Pro	@ 30 °C
Solid	2.20 W/mK	KD2Pro	@ -10 °C
Number of cycles tested	~3000	PLUSS® Internal	
Maximum operating temperature	90 °C		
Flammability	No		

* Determined by T-history

**Nominal Values. 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).

Pluss Advanced Technologies Ltd.
 B-205, 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

PLUSS-TDS-DOC-002 Version no.-R0, 15-Feb-2022

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