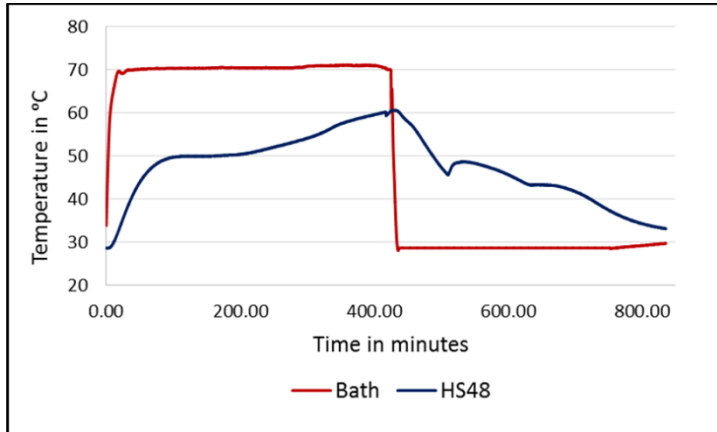


TECHNICAL DATA SHEET OF savE® HS48

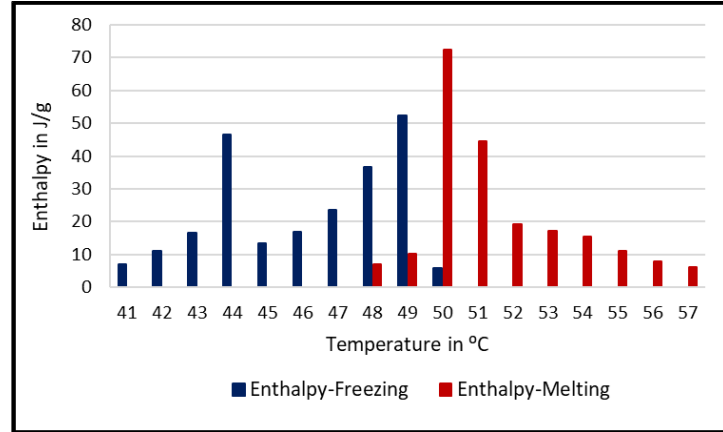
Technical Specification:

Product : savE® HS48
 Description : Inorganic Phase Change material
 Appearance : Solid with undissolved particles @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	50 °C	PLUSS® T-History	@ 60 °C Air Bath
Freezing	49 °C	PLUSS® T-History	@ 38 °C Air Bath
Latent Heat/Enthalpy			
Liquid	211 kJ/kg	PLUSS® T-History	@ 46-55 °C
Solid	225 kJ/kg	PLUSS® T-History	@ 50-41 °C
Density			
Liquid	1380 kg/m ³	ASTM D891-95	@ 60 °C
Solid	1400 kg/m ³	ASTM D891-95	@ 25 °C
Specific Heat			
Liquid	3.47 kJ/kgK	PLUSS® T-History	@ 65 °C
Solid	3.10 kJ/kgK	PLUSS® T-History	@ 30 °C
Thermal Conductivity			
Liquid	0.46 W/mK	KD2Pro	@ 60 °C
Solid	0.60 W/mK	KD2Pro	@ 25 °C
Cycling stability	~300 Under test	PLUSS® Internal	
Maximum Operating Temperature	75 °C		
Flammability	No		
Flash Point	NA		

* 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**).

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-087 Version no.-R0, 15-Feb-2022

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