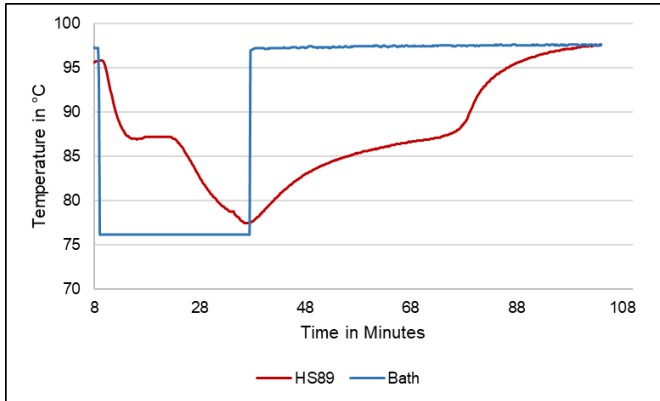


TECHNICAL DATA SHEET OF savE® HS89

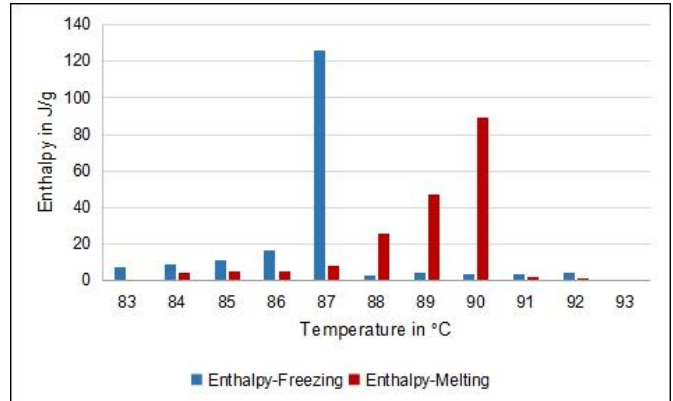
Technical specification:

Product : savE® HS89
 Description : Inorganic phase change material
 Appearance : Milky white solid @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	87 °C	PLUSS® T-History	@ 99 °C Liquid bath
Freezing	87 °C	PLUSS® T-History	@ 79 °C Liquid bath
Nucleation temperature	87 °C	PLUSS® T-History	@ 79 °C Liquid bath
Latent heat/enthalpy			
Melting	188 kJ/kg	PLUSS® T-History	@ 83 to 93 °C
Freezing	191 kJ/kg	PLUSS® T-History	@ 93 to 83 °C
Density			
Liquid	1540 kg/m ³	ASTM D891-95	@ 90 °C
Solid	1630 kg/m ³	ASTM D891-95	@ 30 °C
Specific heat			
Liquid	2.65 kJ/kgK	PLUSS® T-History	@ 95 °C
Solid	3.80 kJ/kgK	PLUSS® T-History	@ 80 °C
Thermal conductivity			
Liquid	NA		
Solid	NA		
Number of cycles tested	~1000	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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