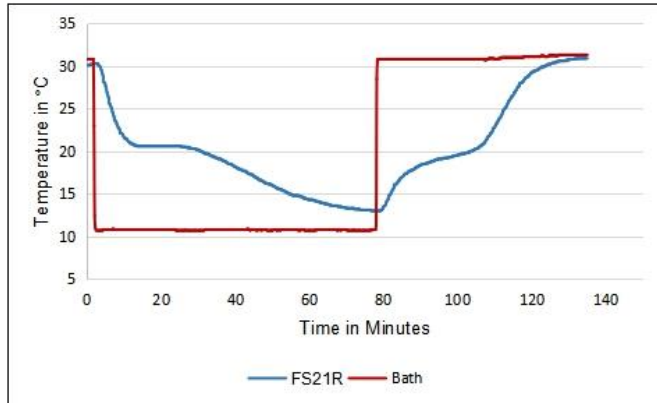


# TECHNICAL DATA SHEET OF savE® FS21R

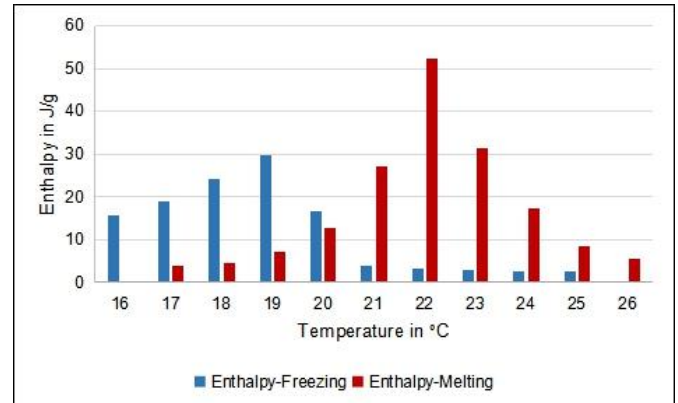
## Technical specification:

Product	:	savE® FS21R
Description	:	Form stable phase change material – liquid PCM embedded in polymer matrix
Appearance	:	Black 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	19 °C	PLUSS® T-History	@ 31 °C Air bath
Freezing	21 °C	PLUSS® T-History	@ 11 °C Air bath
Latent heat/enthalpy			
Melting	170 kJ/kg	PLUSS® T-History	@ 16 to 26 °C
Freezing	121 kJ/kg	PLUSS® T-History	@ 26 to 16 °C
Density			
Liquid	898 kg/m <sup>3</sup>	ASTM D891-95	@ 30 °C
Solid	887 kg/m <sup>3</sup>	ASTM D891-95	@ 0 °C
Specific heat			
Liquid	2.68 kJ/kgK	PLUSS® T-History	@ 30 °C
Solid	2.56 kJ/kgK	PLUSS® T-History	@ 10 °C
Thermal conductivity			
Liquid	0.10 W/mK	KD2Pro	@ 40 °C
Solid	0.30 W/mK	KD2Pro	@ 5 °C
Number of cycles tested	~2000	PLUSS® Internal	
Maximum operating temperature	90 °C		
Flammability	Yes		
Flash point	160 °C		

\* 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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PLUSS-TDS-DOC-240 Version no.-R0, 15-Feb-2022

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