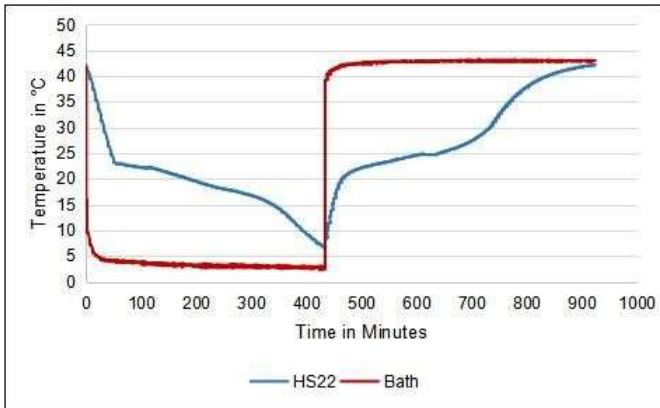


TECHNICAL SPECIFICATION

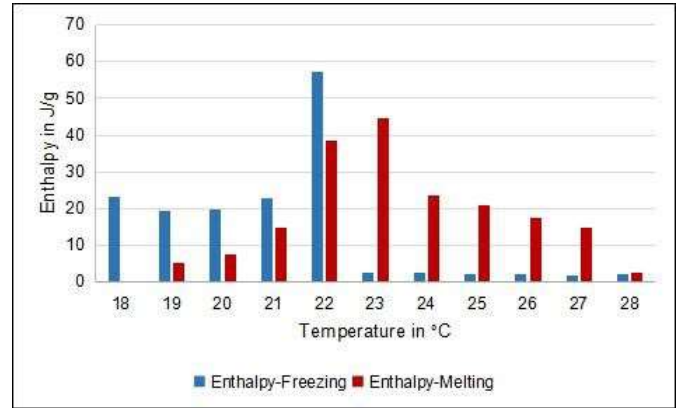
Product: PCM-HS22P
Description: Inorganic phase change material
Appearance: Brown / grey colored liquid @25°C

T-HISTORY TEST

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	23°C	T-History	@ 32°C Liquid bath
Freezing	22°C	T-History	@ 12°C Liquid bath
Nucleation temperature	21°C	T-History	@ 12°C Liquid bath
Latent heat			
Melting	190 kJ/kg	T-History	@ 18 to 28 °C
Freezing	162 kJ/kg	T-History	@ 28 to 18 °C
Density			
Liquid	1540 kg/m ³	ASTM D891-95	@ 30 °C
Solid	1651 kg/m ³	ASTM D891-95	@ 0 °C
Specific heat			
Liquid	2.53 kJ/kgK	T-History	@ 31 °C
Solid	2.27 kJ/kgK	T-History	@ 0 °C
Thermal conductivity			
Liquid	0.56 W/mK	KD2Pro	@ 30 °C
Solid	1.13 W/mK	KD2Pro	@ 15 °C
Number of cycles tested	~2000	Internal	
Maximum operating temperature	90 °C		
Flammability	No		

* Determined by T-history

**Nominal Values. Actual values mentioned in batch test certificate.