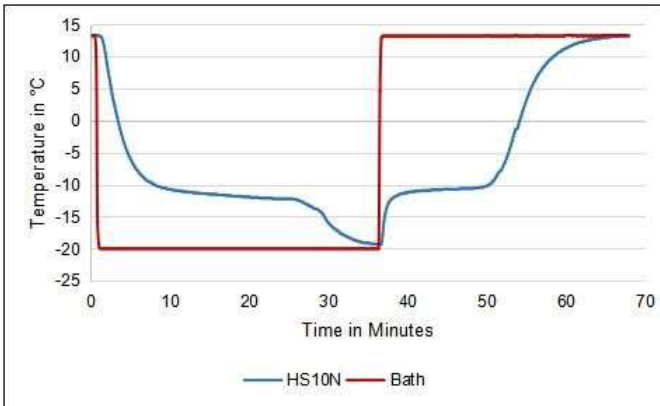


## TECHNICAL SPECIFICATION

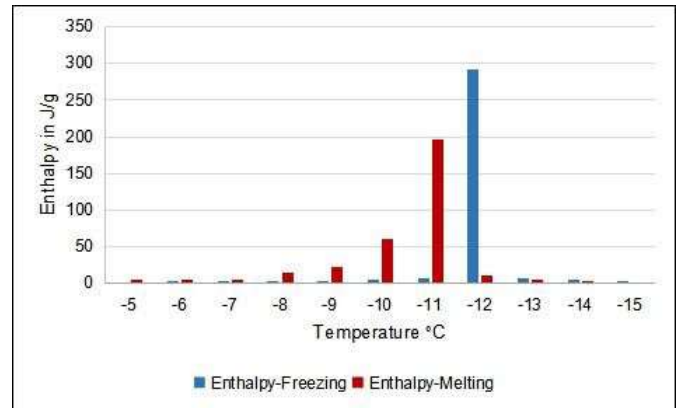
**Product:** PCM-HS10N  
**Description:** Inorganic phase change material  
**Appearance:** Off-white liquid/grey colored liquid @25°C

## 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)
<b>Phase transition temperature</b>			
Melting	-10°C	T-History	@ 0°C Liquid bath
Freezing	-11°C	T-History	@ -20°C Liquid bath
Nucleation temperature	-11°C	T-History	@ -20°C Liquid bath
<b>Latent heat</b>			
Melting	330 kJ/kg	T-History	@ -15 to 5 °C
Freezing	333 kJ/kg	T-History	@ 5 to -15 °C
<b>Density</b>			
Liquid	1125 kg/m <sup>3</sup>	ASTM D891-95	@ 30 °C
Solid	1057 kg/m <sup>3</sup>	ASTM D891-95	@ -20 °C
<b>Specific heat</b>			
Liquid	3.4 kJ/kgK	T-History	@ 30 °C
Solid	1.9 kJ/kgK	T-History	@ -12 °C
<b>Thermal conductivity</b>			
Liquid	0.60 W/mK	KD2Pro	@ 30 °C
Solid	4.25 W/mK	KD2Pro	@ -12 °C
<b>Number of cycles tested</b>	~2000	Internal	
<b>Maximum operating temperature</b>	90 °C		
<b>Flammability</b>	No		

\* Determined by T-history

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