

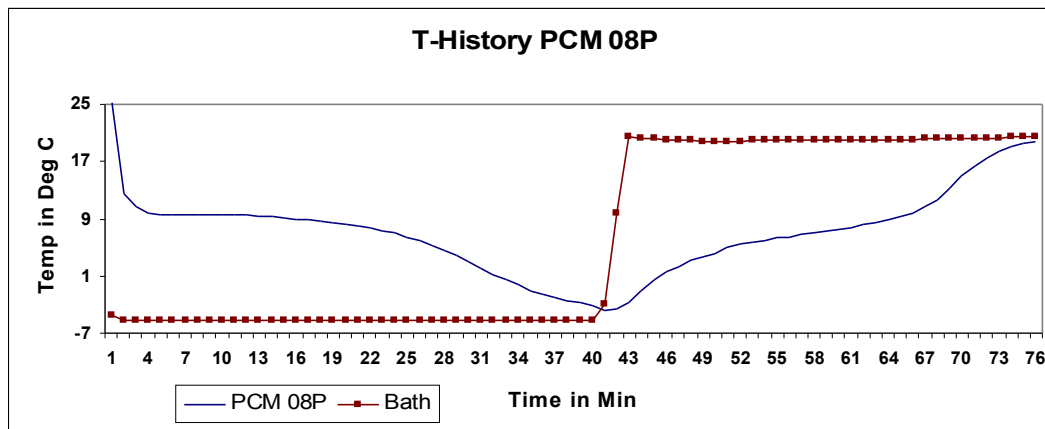
## TECHNICAL DATA SHEET

PCM 08P has a freezing temperature of  $\sim 9^{\circ}\text{C}$ , a temperature that makes it ideal for many cold energy applications. Some of its salient features include:

- The PCM is chemically and thermally stable by using proprietary additives
- It is non-toxic

### Technical Specification:

Series : PCM OM08P  
 Description : Mixture of organic materials  
 Appearance : Colorless liquid



A 25g sample is taken in a test tube in molten condition and placed in a temperature controlled bath. A temperature sensor is placed in the test tube and bath to record the temperatures using a data logger. The bath is maintained at  $-5^{\circ}\text{C}$  during the freezing cycle and at  $20^{\circ}\text{C}$  during the melting cycle.

Property	Value	Test Method	Test Conditions (if any)
Melting Temp. ( $^{\circ}\text{C}$ )	8	T - History	at $20^{\circ}\text{C}$
Freezing Temp. ( $^{\circ}\text{C}$ )	9	T - History	at $-5^{\circ}\text{C}$
Liquid Density ( $\text{kg}/\text{m}^3$ )	1050	ASTM D891-95	at $32^{\circ}\text{C}$
Latent Heat ( $\text{kJ}/\text{kg}$ )	190	T-History method	-
Congruent Melting	Yes	-	-
Sub Cooling	No	T-History	-
Thermal Stability (cycles)	**	-	-
Max. Operating Temp. ( $^{\circ}\text{C}$ )	$\sim 80$	-	-