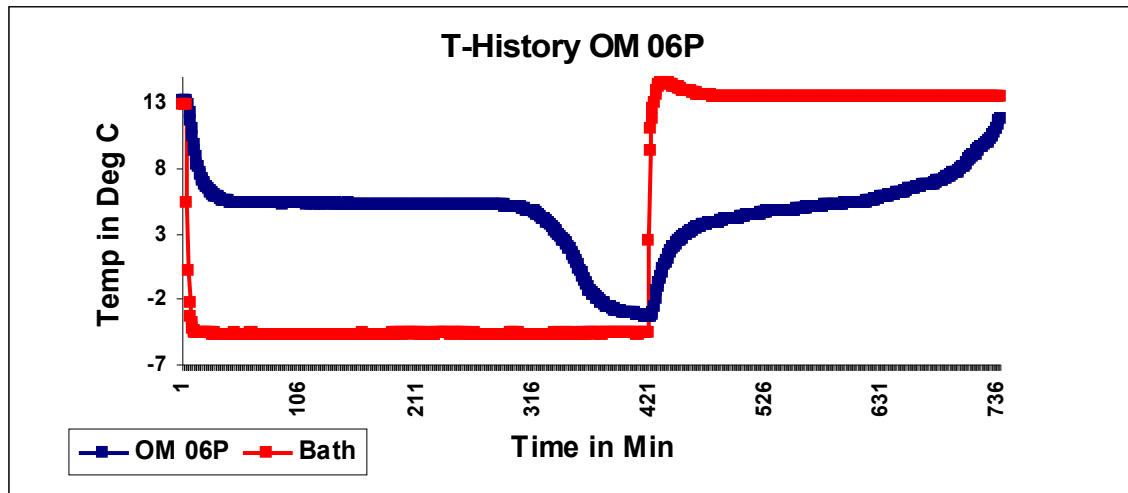


PCM 06P has a freezing temperature of $\sim 5.5^{\circ}\text{C}$, a temperature that makes it ideal for many cold energy applications. Some of its salient features include:

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

Technical Specification:

Series : PCM OM06P
 Description : Mixture of organic materials
 Appearance : Colorless liquid



A 20g 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°C during the freezing cycle and at 14°C during the melting cycle.

Property	Value	Test Method	Test Conditions
Melting Temp. ($^{\circ}\text{C}$)	5 to 6	T - History at	20°C
Freezing Temp. ($^{\circ}\text{C}$)	5.5	T - History at	-5°C
Liquid Density (kg/m^3)	735	ASTM D891-95 at	25°C
Solid Density (kg/m^3)	780	ASTM D891-95 at	-10°C
Latent Heat (kJ/kg)	260	internal method	(from 2 to $+11^{\circ}\text{C}$)
Thermal Stability (cycles)	**		
Flammability	Yes (flash point is 115°C)		
Max. Operating Temp. ($^{\circ}\text{C}$)	~ 50		

** - Under testing



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