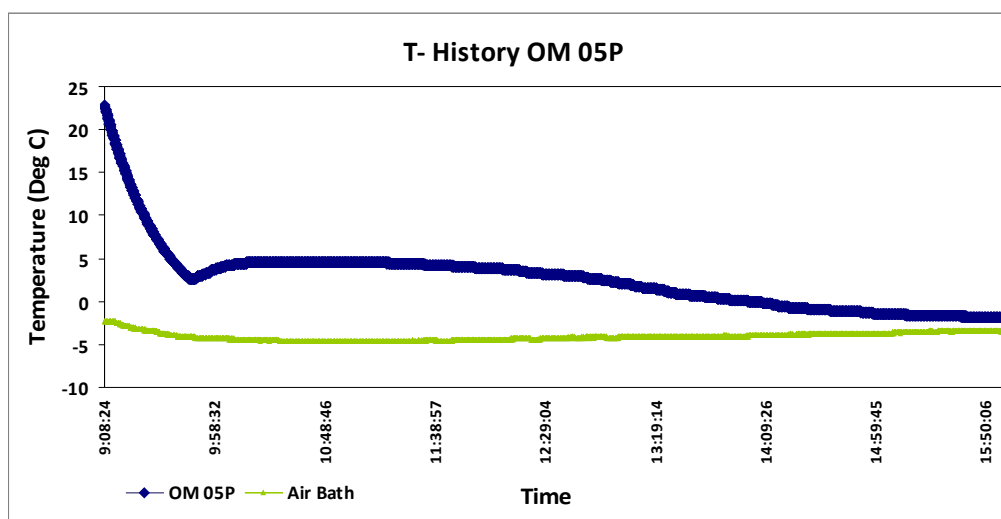


Phase Change Materials (PCM) are hydrated salts or organic mixtures that have large amount of heat energy stored in the form of Latent Heat which is absorbed or released when the materials change state from solid to liquid or liquid to solid. The PCM retains its latent heat without any change in physical or chemical properties over thousands of cycles.

Technical Specification:

Series : PCM OM05P
 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°C during the freezing cycle and at 20°C during the melting cycle.

Property	Value	Test Method	Test Conditions (if any)
Melting Temp. (°C)	5	T - History at	20 °C
Freezing Temp. (°C)	5	T - History at	-5 °C
Liquid Density (kg/m ³)	770	ASTM D891-95 at	32 °C
Solid Density (kg/m ³)	880	ASTM D891-95 at	32 °C
Latent Heat (kJ/kg)	198	internal method	(from -2 to +13°C)
Thermal Conductivity	0.2	W/m.K	-
Thermal Stability (cycles) **			
Max. Operating Temp. (°C)	~50		



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