



# DATASHEET – GAIA PHASE CHANGE MATERIALS

## GAIA OM PCM7

TYPE PCM	Organic
APPEARANCE	Colorless
SOLIDIFICATION TEMPERATURE	6°C
MELTING TEMPERATURE	7°C
LATENT HEAT	180 kJ/kg
SPECIFIC HEAT (LIQUID)	2,1 kJ/kg.K
HEAT CONDUCTIVITY LIQUID/SOLID	0,45/0,5 W/m.K
DENSITY	862 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	4°C to 10°C
FLAMMABILITY	Class IIIB
DANGEROUS GOODS CLASS	Not applicable

## GAIA OM PCM14

TYPE PCM	Organic
APPEARANCE	Colorless, Translucent
SOLIDIFICATION TEMPERATURE	13°C
MELTING TEMPERATURE	14,5°C
LATENT HEAT	208 kJ/kg
SPECIFIC HEAT (LIQUID)	2,7 kJ/kg.K
HEAT CONDUCTIVITY LIQUID/SOLID	0,4/0,45 W/m.K
DENSITY	852 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	10°C - 18°C
FLAMMABILITY	Class IIIB
DANGEROUS GOODS CLASS	Not applicable

## GAIA HS PCM18

TYPE PCM	Inorganic
APPEARANCE	White Hygroscopic
SOLIDIFICATION TEMPERATURE	17.5°C
MELTING TEMPERATURE	18.5°C
LATENT HEAT	170 kJ/kg
SPECIFIC HEAT (LIQUID)	2,0 kJ/kg.K
HEAT CONDUCTIVITY LIQUID/SOLID	0,54/0,97 W/m.K
DENSITY	1400 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	15°C - 21°C
FLAMMABILITY	Not flammable
DANGEROUS GOODS CLASS	Not applicable

## GAIA HS PCM24

TYPE PCM	Inorganic
APPEARANCE	White deliquescent
SOLIDIFICATION TEMPERATURE	22°C
MELTING TEMPERATURE	24°C
LATENT HEAT	158 kJ/kg
SPECIFIC HEAT (LIQUID)	2,2 kJ/kg.K
HEAT CONDUCTIVITY LIQUID/SOLID	0,54/1,12 W/m.K
DENSITY	1480 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	21°C - 27°C
FLAMMABILITY	Not flammable
DANGEROUS GOODS CLASS	Not applicable

## GAIA HS PCM29

TYPE PCM	Inorganic
APPEARANCE	White deliquescent
SOLIDIFICATION TEMPERATURE	27°C
MELTING TEMPERATURE	29°C
LATENT HEAT	188 kJ/kg
SPECIFIC HEAT (LIQUID)	2,3 kJ/kg.K
HEAT CONDUCTIVITY LIQUID/SOLID	0,54/1,09 W/m.K
DENSITY	1510 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	26°C - 32°C
FLAMMABILITY	Not flammable
DANGEROUS GOODS CLASS	Not applicable

## GAIA HS PCM36

TYPE PCM	Inorganic
APPEARANCE	White deliquescent
SOLIDIFICATION TEMPERATURE	34°C
MELTING TEMPERATURE	36°C
LATENT HEAT	202 kJ/kg
SPECIFIC HEAT (LIQUID)	2,0 kJ/kg.K
HEAT CONDUCTIVITY LIQUID/SOLID	0,5/0,89 W/m.K
DENSITY	1830 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	32°C - 40°C
FLAMMABILITY	Not flammable
DANGEROUS GOODS CLASS	Not applicable



## GAIA HS PCM48

TYPE PCM	Inorganic
APPEARANCE	White Hygroscopic
SOLIDIFICATION TEMPERATURE	45°C
MELTING TEMPERATURE	48,7°C
LATENT HEAT	206 kJ/kg
SPECIFIC HEAT (LIQUID)	2,5 kJ/kg.K
HEAT CONDUCTIVITY LIQUID/SOLID	0,52/0,78 W/m.K
DENSITY	1570 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	45°C - 52°C
FLAMMABILITY	Not flammable
DANGEROUS GOODS CLASS	Not applicable

## GAIA HS PCM58

TYPE PCM	Inorganic
APPEARANCE	White Hygroscopic
SOLIDIFICATION TEMPERATURE	52°C
MELTING TEMPERATURE	58°C
LATENT HEAT	226 kJ/kg
SPECIFIC HEAT (LIQUID)	2,5 kJ/kg.K
HEAT CONDUCTIVITY LIQUID/SOLID	0,54/1,02 W/m.K
DENSITY	1450 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	50°C - 62°C
FLAMMABILITY	Not flammable
DANGEROUS GOODS CLASS	Not applicable

## GAIA HS PCM64

TYPE PCM	Inorganic
APPEARANCE	White crystals
SOLIDIFICATION TEMPERATURE	61°C
MELTING TEMPERATURE	64°C
LATENT HEAT	218 kJ/kg
SPECIFIC HEAT (LIQUID)	2,2 kJ/kg.K
HEAT CONDUCTIVITY LIQUID/SOLID	0,52/0,8 W/m.K
DENSITY	1661 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	58°C - 70°C
FLAMMABILITY	Not flammable
DANGEROUS GOODS CLASS	Not applicable

## GAIA OM PCM70

TYPE PCM	Organic
APPEARANCE	Colorless
SOLIDIFICATION TEMPERATURE	69°C
MELTING TEMPERATURE	71°C
LATENT HEAT	190 kJ/kg
SPECIFIC HEAT (LIQUID)	2 kJ/kg.K
HEAT CONDUCTIVITY BOTH PHASES	0,2 W/m.K
DENSITY	890 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	68°C - 73°C
FLAMMABILITY	Class IIIB
DANGEROUS GOODS CLASS	Not applicable

## GAIA HS PCM78

TYPE PCM	Inorganic
APPEARANCE	White Hygroscopic
SOLIDIFICATION TEMPERATURE	75°C
MELTING TEMPERATURE	78°C
LATENT HEAT	260 kJ/kg
SPECIFIC HEAT (LIQUID)	2,1 kJ/kg.K
HEAT CONDUCTIVITY LIQUID/SOLID	0,5/0,98 W/m.K
DENSITY	1900 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	72°C - 84°C
FLAMMABILITY	Not flammable
DANGEROUS GOODS CLASS	Not applicable

## GAIA HS PCM89

TYPE PCM	Inorganic
APPEARANCE	Clear deliquescent
SOLIDIFICATION TEMPERATURE	84°C
MELTING TEMPERATURE	89,3°C
LATENT HEAT	149 kJ/kg
SPECIFIC HEAT (LIQUID)	2,0 kJ/kg.K
HEAT CONDUCTIVITY LIQUID/SOLID	0,68/1,24 W/m.K
DENSITY	1530 kg/m <sup>3</sup>
USEFUL TEMPERATURE RANGE	84°C - 94°C
FLAMMABILITY	Not flammable
DANGEROUS GOODS CLASS	Not applicable