

SP90



The creation of the latent heat blended material RUBITHERM® SP has led to a new and innovative class of low flammability PCM. RUBITHERM® SP consists of a unique composition of inorganic components. RUBITHERM® SP is preferably used as macroencapsulated material. Densities of 1,0 kg/l and more can be achieved. This and all properties mentioned below make RUBITHERM® SP to the preferred PCM used in the construction industry. Both passive and active cooling can easily be realized e.g. in air conditioners. We look forward to discussing your particular questions, needs and interests with you.

Properties:

- stable performance throughout the phase change cycles
- high thermal storage capacity per volume
- limited supercooling (2-3K dependig on volume and cooling rate),
- low flammability, non toxic
- different melting temperatures between -50°C und 70°C are available
- encapsulation necessary, minimum volume: 50ml

The most important data:

Melting area

Congeeing area

Heat storage capacity ± 7,5%
Combination of sensible and latent heat in a temperatur range of 80 °C to 95 °C.

Specific heat capacity

Density solid

at 30°C

Density liquid

at 10°C

Volume expansion

Heat conductivity

Max. operation temperature

Corrosion

Typical Values

88-90 [°C]

main peak: 90

89-87 [°C]

main peak: 88

150 [kJ/kg]

42 [Wh/kg]*

2 [kJ/kg·K]*

1,7 [kg/l]

1,65 [kg/l]

3-4 [%]

0,6 [W/(m·K)]

110 [°C]

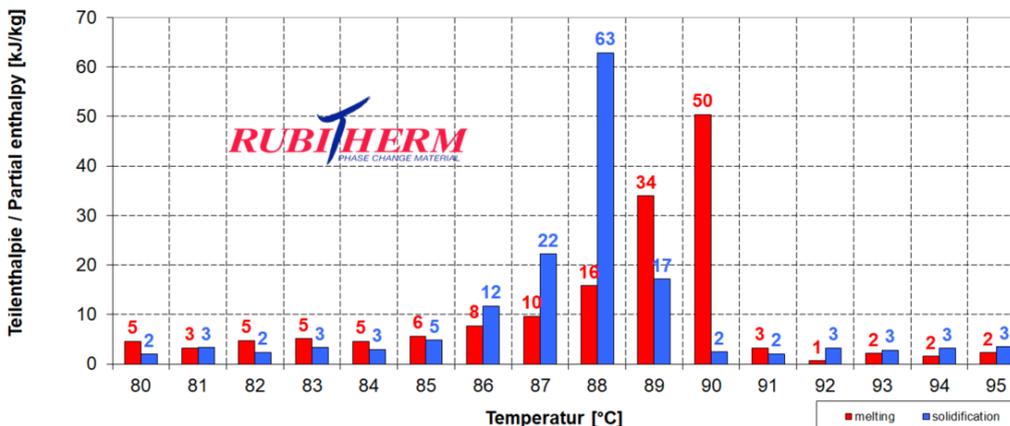
corrosive effect on metals



Note:

Many SP-product are hygroscopic and may absorb moisture if stored improperly. This can result in a change of the physical properties given.

Beispiel / example: SP90 Teilenthalpie / Partial enthalpy distribution*



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*Measured with 3-layer-calorimeter.