



RUBITHERM® SP

Latent Heat Blend

The creation of the latent heat blends *RUBITHERM SP* has led to a new and innovative class of low flammability PCM. *RUBITHERM SP* consists of a unique composition of salt hydrates and organic compounds. This combination unites the advantages of both classes of PCM, salt hydrate based as well as latent heat paraffin based.

RUBITHERM SP is preferably processed into sustaining and/or absorptive structure (e. g. foams). Material densities of 1,0 kg/l and more can be achieved. These properties make *RUBITHERM SP* to the preferred PCM used in the construction industry. Passive and active cooling is now possible e.g. in wall elements and air conditioners.

Properties:

- Stable performance throughout the phase change cycles
- High thermal storage capacity
- Limited supercooling
- low flammability
- non toxic
- Different melting temperatures between 21°C and 31°C are available

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RUBITHERM® SP 25 A8

Typical Values

Melting Point	°C	26
Congeeing Point	°C	25
Heat storage capacity <i>Temperature range 15°C to 30°C</i>	kJ/(kg)	180
Density at -15°C	kg/l	1,38
Volume expansion g	1/K	0,001
Specific heat capacity	kJ/(kg·K)	2,5
Heat conductivity	W/(m·K)	0,6
Viscosity		Shear thinning

Note:

The product is hygroscopic. If stored in a not completely self contained container the material may absorb moisture. This could result in other than the given physical properties.