

Product  
Information



# ***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 und 31°C are available

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## Preliminary Data Sheet

### ***RUBITHERM***<sup>®</sup> SP25A08



#### Typical Values

Melting area*	°C	25 - 27 typical being: 25°C
Congealing area*	°C	22 - 24 typical being: 22°C
Heat storage capacity* temperature range 18°C to 33°C	kJ/kg	160
Density solid at 20°C	kg/l	1.43
Density liquid at 40°C	kg/l	1.23
Volume expansion with phase change and $\Delta T = 20$ K	%	13.98
Heat conductivity	W/(m*K)	0.6
Kin. Viscosity at 50°C	mm <sup>2</sup> /s	16.88
corrosion		corrosive compared to metal
Water hazard		Water hazard class (WGK): 1, low hazardous to waters (self- classification)

**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.

\* This values be ascertained by an multi-layer-calorimeter.

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