

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 18°C und 29°C are available

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Data Sheet

RUBITHERM[®] SP22A17



Typical Values

Melting area	°C	22 - 24 typical being: 23°C
Congealing area	°C	21 - 19 Typical being: 20°C
Heat storage capacity Temperature range 13°C to 28°C	kJ/kg	150
Density solid at 15 °C	kg/l	1.49
Density liquid at 35 °C	kg/l	1.43
Volume expansion with phase change and $\Delta T = 20$ K	%	4.03
Heat conductivity	W/(m*K)	0.6
Kin. Viscosity at 55 °C	mm ² /s	111.1
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.