

## RT90HC



A new generation of ecological heat storage materials utilising the processes of phase change between solid and liquid (melting and congealing) to store and release large quantities of thermal energy at nearly constant temperature. The RUBITHERM® phase change materials (PCM's) provide a very effective means for storing heat and cold, even when limited volumes and low operating temperature differences are applicable.

We look forward to discussing your particular questions, needs and interests with you.

### Properties RT-line:

- stable performance throughout the phase change cycles
- high thermal storage capacity
- limited supercooling
- non toxic
- melting temperature range between -9 °C and 100 °C available

### The most important data:

**Melting area**

**Congealing area**

**Heat storage capacity ± 7,5%**  
Combination of latent and sensible heat in a temperatur range of 83°C to 98°C.

**Specific heat capacity**

**Density solid**  
at 25°C

**Density liquid**  
at 95°C

**Heat conductivity**

**max. operation temperatur**

**Corrosion**

### Typical Values

**91-92** [°C]

main peak: 91

**91-90** [°C]

main peak: 90

**170** [kJ/kg]\*

**47** [Wh/kg]\*

**2** [kJ/kg·K]

**0,95** [kg/l]

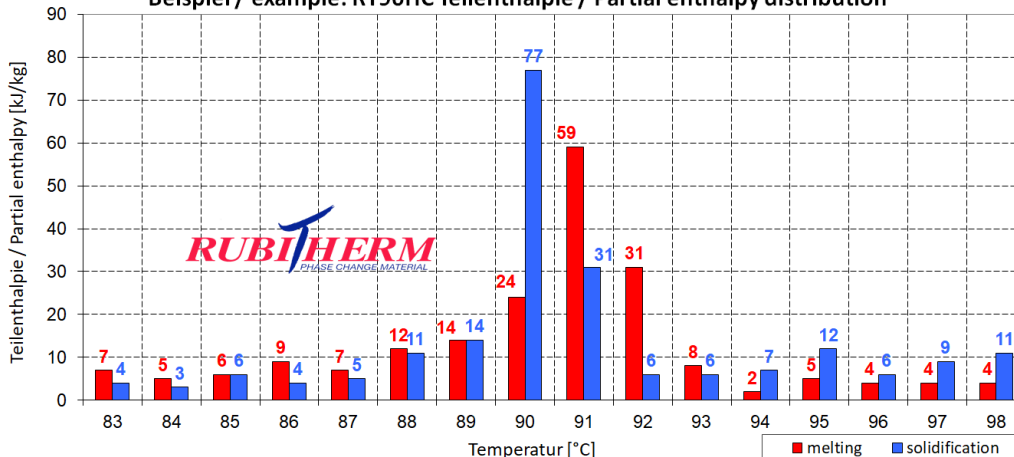
**0,85** [kg/l]

**~0,2** [W/(m·K)]

**120** [°C]

**strong corrosive effect on metals**

Beispiel / example: RT90HC Teilenthalpie / Partial enthalpy distribution\*



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\*measured with 3-layer-calorimeter