

RT80HC

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 70°C to 85°C.

Specific heat capacity

Density solid
at 25°C

Density liquid
at 90°C

Heat conductivity

max. operation temperatur

Corrosion

Typical Values

77-80 [°C]
main peak: 78

80-77 [°C]
main peak: 79

220 [kJ/kg]*

60 [Wh/kg]*

2 [kJ/kg·K]

0,9 [kg/l]

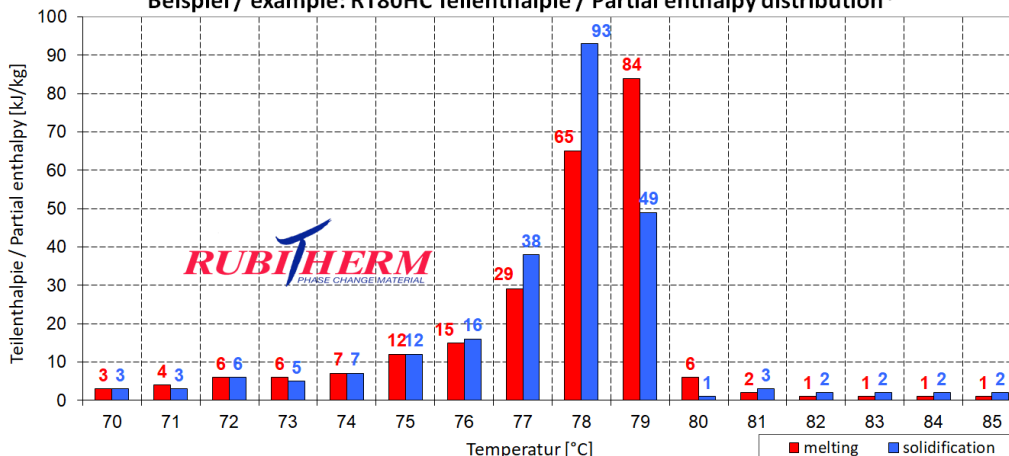
0,8 [kg/l]

0,2 [W/(m·K)]

110 [°C]

strong corrosion effect on metals

Beispiel / example: RT80HC Teilenthalpie / Partial enthalpy distribution*



*measured with 3-layer-calorimeter

Rubitherm Technologies GmbH
Imhoffweg 6
D-12307 Berlin
Tel: +49 (30) 7109622-0
E-Mail: info@rubitherm.com
Internet: www.rubitherm.com

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