

RT24HC

RUBITHERM® RT is a pure PCM, this heat storage material 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 differences in operating temperature are applicable.



Properties for RT-line:

- high thermal energy storage capacity
- heat storage and release take place at relatively constant temperatures
- no supercooling effect, chemically inert
- long life product, with stable performance through the phase change cycles
- melting temperature range between -9 °C and 100 °C available

The most important data:

Melting area

Typical Values

23-26 [°C]

main peak: 24

Congealing area

24-22 [°C]

main peak: 24

Heat storage capacity ± 7,5%

Combination of latent and sensible heat in a temperatur range of 16°C to 31°C.

200 [kJ/kg]*

56 [Wh/kg]*

Specific heat capacity

2 [kJ/kg·K]

Density solid

at 20°C

0,8 [kg/l]

Density liquid

at 28°C

0,7 [kg/l]

Heat conductivity (both phases)

0,2 [W/(m·K)]

Volume expansion

12 [%]

Flash point

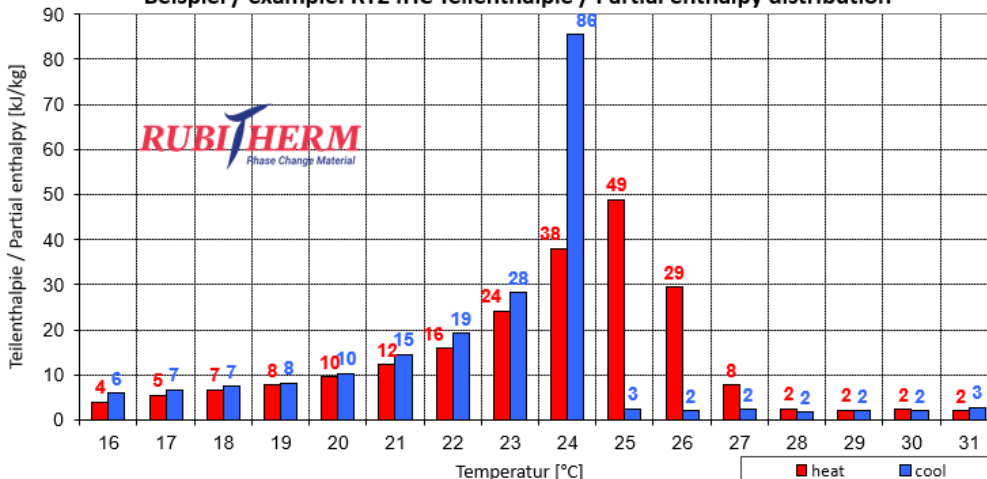
150 [°C]

Max. operation temperature

56 [°C]



Beispiel / example: RT24HC Teilenthalpie / Partial enthalpy distribution*



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

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*Measured with 3-layer-calorimeter.