

AXIOTHERM® PCMs are designed to absorb and release large quantities of thermal energy at constant temperatures. Over 30 organic (ATP) and inorganic (ATS) high-performance PCM in a temperature range between -40 °C to 140 ° are available in special macro-encapsulated form with an optimized surface-to-mass ratio for faster energy exchange and improved performance in practical applications. Standardised solutions such as our HeatSel®s and HeatPlates are available for water and air-based applications and can be adapted to your specific requirements.

Key features of the AXIOTHERM® PCM are:

- High heat storage capacities
- Consistent, repeatable performance over thousands of thermal cycles
- Simple and safe handling
- Also based on renewable raw materials, nontoxic and biodegradable

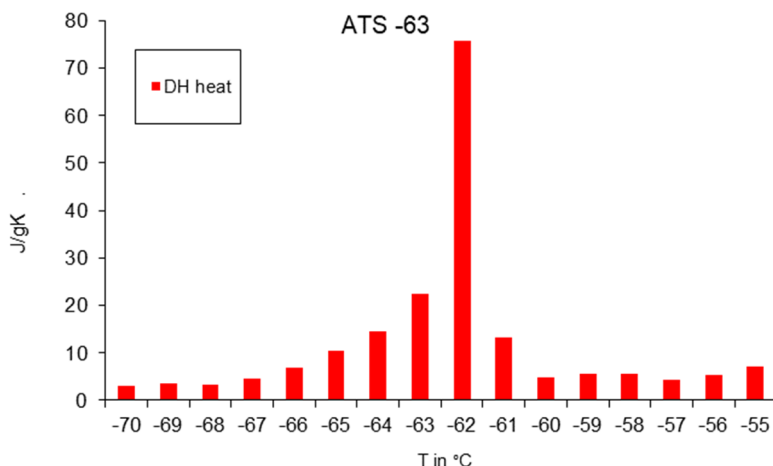


Typical Values

| | | |
|---|---------|---------------|
| Melting temperature | °C | -65 to -61 |
| Conditioning | °C | -80 to -85 |
| Heat storage capacity* temperature range of -70 – -55°C | kJ/kg | 190 |
| Specific heat capacity | kJ/kg*K | 3 |
| Density (liquid) | kg/l | 1,35 |
| Heat conductivity | W/(m*K) | 0,6 |
| Volume expansion | % | <10% |
| Max. operating temperature | °C | 50 |
| Flash point | °C | Non-flammable |

Corrosion

Corrosive effect on metals



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The product information given is a non-binding planning aid, subject to technical changes without notice.
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*Measured with 3-Layer-Calorimeter