CRYOSOLPLUS
HIGH-CAPACITY COLD SUPPLY FLUID AND COLD STORAGE MEDIUM [+5 TO +45°C]

Existing cooling systems are reaching their storage- and transport capacity fast. The application of CryoSolPLUS – with a 2 to 3 times higher storage capacity than water - increases the performance of existing cold storage and cold supply networks by enhancing the storage and transport capacity.

CryoSolPLUS is used in the temperature range between 5 and 20 °C as an alternative to cold water and between 25 and 45 °C as a heat transfer and storage medium, respectively.

Keywords
- Heat transfer fluid with high energy density and capacity
- Thermal storage
- Process cooling
- Air-conditioning
- Mobile cooling

Industrial sectors
- Producing industry
- Air-conditioning/building cooling
- Chemical industry
- Cooling appliances, cold storage depots
- Food industry
- Automobile manufacturers
1 Cooling medium emulsion
CryoSolplus.
2 Capillary tube mats.

<table>
<thead>
<tr>
<th>Technological specifications</th>
<th>Our service</th>
<th>Your benefit</th>
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<tbody>
<tr>
<td>• CryoSolplus is a hybrid energy storage medium based on dispersed phase change materials (PCM)</td>
<td>• CryoSolplus tailor-made - Cold or low-temperature heat storage tailor-made for your application</td>
<td>Improved performance of existing plants</td>
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<td>• Apart from the sensitive heat, CryoSolplus also uses the latent heat of a phase changing process, of paraffin in a paraffin/water emulsion.</td>
<td>• CryoSolplus as a retrofit for cold water storage systems</td>
<td>• Higher storage capacity with existing cold storage tanks and low temperature heat storage tanks</td>
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<td>• CryoSolplus remains liquid in a phase changing process, because of the dispersion of PCM in water</td>
<td>• Engineering and installation of cold supply systems based on CryoSolplus</td>
<td>• Increase of transport capacity of existing cold supply networks</td>
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<td>• CryoSolplus is neither flammable nor toxic</td>
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<td>• More flexibility in view of operating availability due to the increased storage capacity</td>
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<td>• Energy density of CryoSolplus with 25 weight-% paraffin is approx. 50 kJ/kg for comparison: cold water (6 to 12 °C) has an energy density of 25 kJ/kg, i.e. CryoSolplus is twice as good</td>
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<td>• Precise tempering of sensitive processes accurate to the degree</td>
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