

ttFluid-G

Heat transfer fluid for food-grade applications

ttFluid-G is an environmentally friendly, non-toxic heat transfer and antifreeze agent based on monopropylene glycol for closed circuits

Fixed minimum freeze protection of -20 °C

Free from nitrites, phosphates, secondary amines, borates, zinc, and 2-athylhexanoic acid

Available in the following quantities:

20 kg
Plastic canister
Item no.: VBM 422 736

200 kg
Barrel
Item no.: VBM 422 732

1000 kg
IBC container
Item no.: VBM 422 735



General Characteristics

- Highly effective corrosion inhibitors and hardness stabilisers
- Suitable for use in food-contact areas and for chilled brine applications
- Optimal corrosion protection for all metals used in the system (including copper and aluminium)
- Prevents formation of layers and deposits
- pH-balancing
- Positive ecological and physiological assessment
- Sealing materials are not affected
- Concentrate in de-ionized water

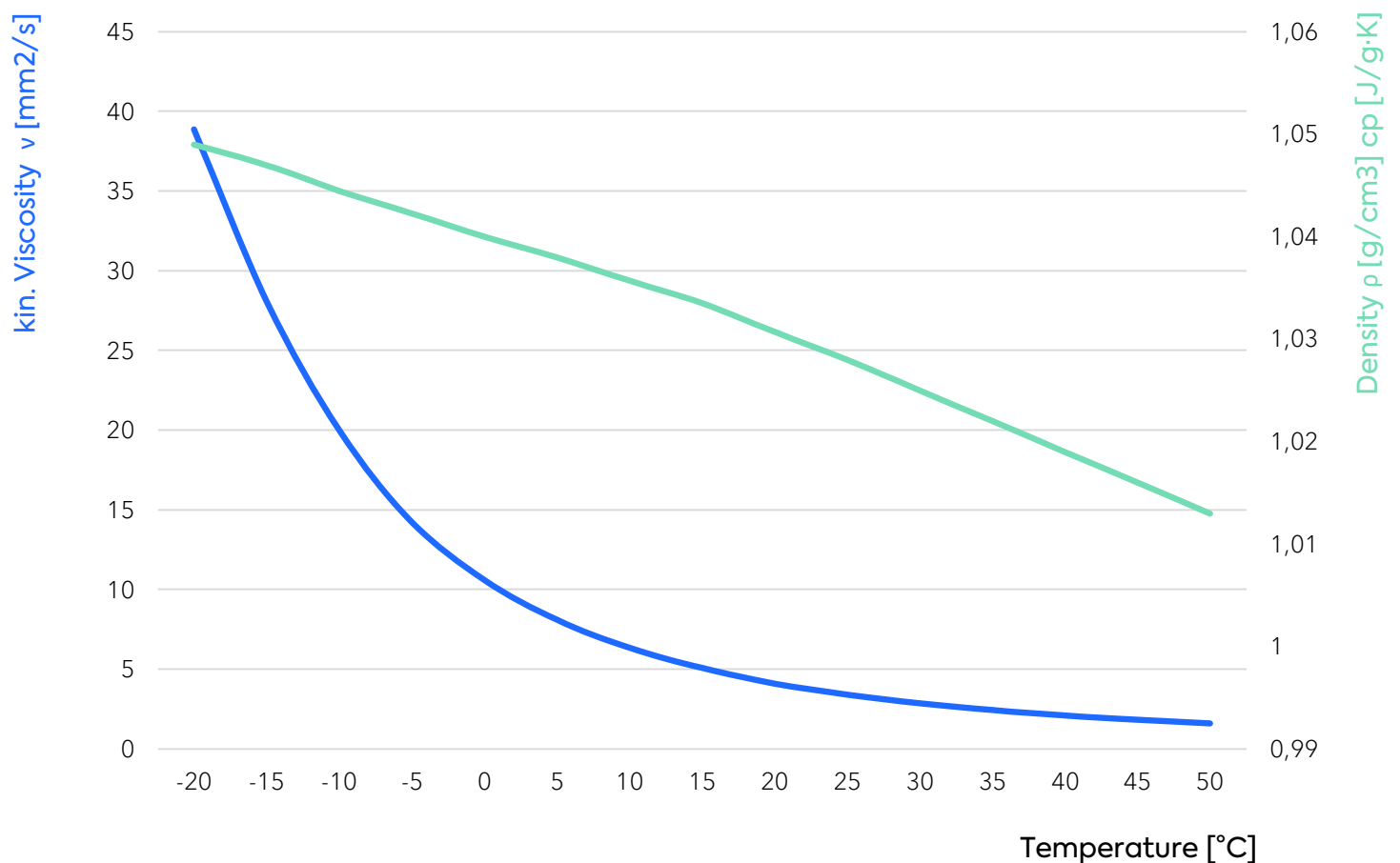
Parameters

Colour	green
Antifreeze base	monopropyleneglycol / 1.2 propandiol
Ecology	biodegradable
ph value	8.3 ±0.2
Density [g/cm³]	1.030 ±0.015
Conductance [S]	285 ±40
Water hazard class	1 (low hazard)

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Density and Viscosity



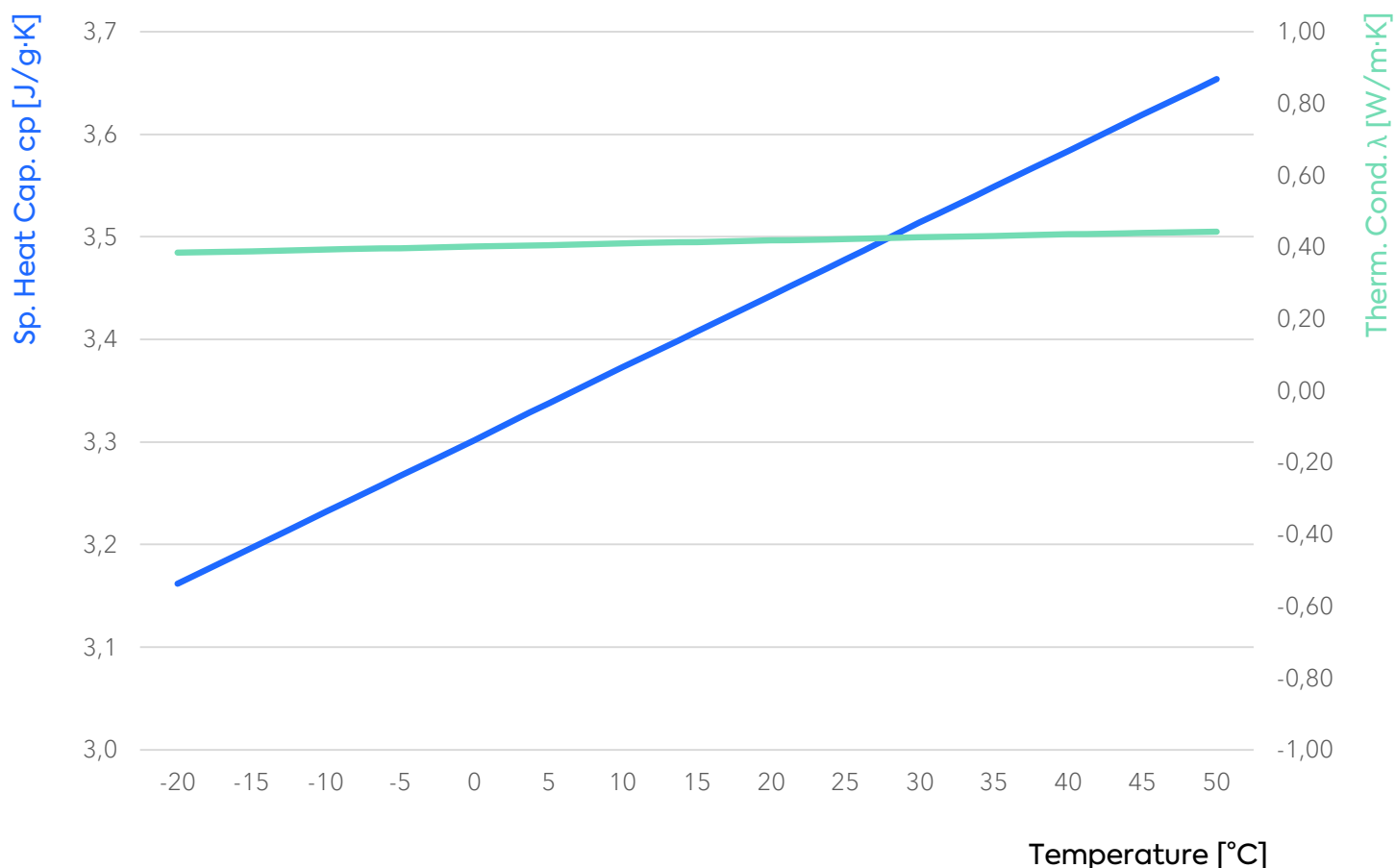
Recommendations

- Optimum operating temperature: -20 °C to 100 °C
- If fluid is lost, top up only with ttFluid-G or its dilutions

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Heat Capacity and Thermal Conductance



This technical data sheet is provided for information purposes only and is not binding. The information and specifications contained herein are based on our current experience and knowledge and should not be construed as a guarantee of specific properties. The use of the products must always be adapted to the relevant operating conditions. In particular, we cannot accept liability for damage caused by material incompatibility, unless material compatibility has been expressly guaranteed in advance. Chemicals (particularly those containing organic substances) generally have a limited shelf life. Product changes (e.g. colour changes, minor precipitation or, in some cases, minor losses of active ingredients) depending on storage time and conditions do not therefore constitute a defect. Please observe the additional storage instructions in each case. Furthermore, fluctuations in the product properties of chemicals and the preparations made from them are generally unavoidable. All physical or chemical data should therefore be regarded as average values. Our technical support team is available to answer any questions you may have regarding water conditioning.

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Technical Data

Temp. °C	Density ρ [g/cm ³]	kin. Viscosity η [mm ² /s]	Sp. Heat Cap. cp [J/g·K]	Therm. Cond. λ [W/m·K]
-20	1,049	38,877	3,162	0,385
-15	1,047	28,089	3,197	0,389
-10	1,044	16,669	3,232	0,394
-5	1,042	14,254	3,267	0,398
0	1,041	10,606	3,302	0,402
5	1,038	8,100	3,338	0,406
10	1,036	6,355	3,373	0,411
15	1,033	5,075	3,408	0,415
20	1,031	4,112	3,443	0,419
25	1,028	3,416	3,478	0,423
30	1,025	2,869	3,514	0,428
35	1,022	2,441	3,549	0,432
40	1,019	2,102	3,584	0,436
45	1,016	1,829	3,619	0,440
50	1,012	1,606	3,654	0,444

ttFluid-G contains no CMR (carcinogenic, mutagenic, reprotoxic) substances and none of the substances listed in Article 4(1) of EC Directive 2011/65/EU (RoHS = Restriction of Hazardous Substances), such as lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether.

Related Products Available

ph Test Strips
Item no.: 8110558

Dip Slides
for testing for germs and fungus
Item no.: 10156220

Test Kit
for testing water hardness
IBC container
Item no.: 8110600

Refractometer
Item no.: 8120098

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Data as of 05/2026

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