

Technical Datasheet

DW-Therm HT Thermofluid

- Only to be used by qualified personnel -

Specifications

- Appearance : clear, orange coloured liquid
- Content : $\geq 99,5$ % partially hydrogenated naphthalenes
- Kinemat. viscosity : $51 \text{ mm}^2/\text{sec}$ at $20 \text{ }^\circ\text{C}$
- Density : 1.043 g/cm^3 at $20 \text{ }^\circ\text{C}$
- Boiling starts at : approx. $352 \text{ }^\circ\text{C}$
- Pourpoint : $-30 \text{ }^\circ\text{C}$
- Flash point : approx. $190 \text{ }^\circ\text{C}$
- Ignition temperature : approx. $385 \text{ }^\circ\text{C}$

Properties

DW-Therm HT is a mixture of partially hydrogenated naphthalenes. It is especially suited for high temperature applications using hydraulically sealed thermostats.

Properties

- broad working range from $20 \text{ }^\circ\text{C}$ up to $340 \text{ }^\circ\text{C}$ (hydraulically sealed systems)
- long lifetime at high temperatures under inert atmosphere
- good thermal properties for heat transfer
- high thermooxidation stability
- no known toxicity

Instructions for proper use

DW-Therm HT heat transfer fluid should only be used in hydraulically sealed systems. Please take note of the following instructions:

- At first fill make sure that the thermostat is clean. Remove all residues of previously used heat transfer fluid.
- The use of an inert gas blanket (e.g. nitrogen gas) for the heat transfer system is highly re-

commended. This ensures a long life.

- To make filling a thermostat easier: Store the thermofluid for some time at 40 °C to lower the viscosity.
- Recommendation for hoses: insulated metal hoses (e.g. corrugated stainless steel hoses)

Disposal of used thermofluid und cleaning hints

- DW-Therm should be disposed of as other organic heat transfer fluids. Please observe all federal, state and local environmental regulations that apply.
- DW-Therm is very soluble in acetone, ethanol or iso-propanol. If thermofluid is spilled first clean surface with tissue paper. Afterwards apply a little iso-propanol and wipe surface dry. Dispose used paper properly.

Storage stability

DW-Therm HT has an excellent storage stability. The minimum shelf life will be 10 years in the original containers at 20 °C.

Please read carefully:

The data and all recommendations for the use of DW-Therm HT presented in this leaflet are in accordance with the present state of our knowledge.

The purchaser acknowledges that there may be certain hazards associated with the use of this heat transfer fluid.

The purchaser agrees to instruct their employees, agents and customers to use this product safely.

All handling, use and disposal should be in accordance with good industrial hygiene practices and with conformity with any legal regulations.

Buyer has to ensure that the intended use of the product will not infringe any third party's intellectual property rights.



spez. Wärmekapazität von DW Therm HT

Temperatur [°C]	Spez. Wärmekapazität [kJ/kg • K]
0	1,5610
10	1,5910
20	1,6200
30	1,6500
40	1,6800
50	1,7100
100	1,8580
150	2,0070
200	2,1560
250	2,3050
300	2,4540
350	2,6020