

# HIGH-TEMPERATURE HEAT TRANSFER FLUID

## Technical datasheet Nr 66



The reversibly evaporisable special high-temperature heat-transfer fluid is specially designed for filling of solar systems with vacuum tube collectors.

### • DESCRIPTION:

- AFSSA health approval.
- Ready-to-use mixture formulated with 1.2-propylene glycol, water and inhibitors.
- High enough proportion of corrosion inhibitors contained in the fluid reliably protect the metals normally used in solar installations against corrosion, ageing and deposits over long periods.
- It keeps the surfaces of heat exchangers clean, and thus ensures consistently high thermal efficiency.
- Protection from -28°C up to +170°C (under conditions).

### • TECHNICAL SPECIFICATIONS:

Specifications	Value	Test methods
Appearance	Clear, red-fluorescent liquid	
Density (kg/m <sup>3</sup> )	20°C: 1034 100°C: 977	ASTM D 1122
Kinematic viscosity (mm <sup>2</sup> /s)	20°C: 5.0 100°C: 0.8	DIN 51562
Specific heat capacity (J/(kg.K))	20°C: 3601 100°C: 3915	-
Thermal conductivity (W/(m.K))	20°C: 0.413 100°C: 0.470	-
Vapour pressure (bar)	100°C: 0.9 140°C: 3.2	-
Cubic expansion coefficient (.10 <sup>-5</sup> /K)	20°C: 55.8 100°C: 81.0	-
Boiling point (°C)	102 - 105	ASTM D 1120
Flash point (°C)	none	DIN 51376
Water content (%)	55-58	DIN 51777
Frost protection (°C)	-28	ASTM D 1177
Refraction nD20	1.380 – 1.384	DIN 51757
pH value	9.0 – 10.5	ASTM D 1287
Reserve alkalinity	min. 20 ml 0.1 n HCl	ASTM D 1121

### • PACKAGING:

Reference*	Designation
50070104000	High-temperature heat transfer fluid -28°C, canister of 20L
50070104001	High-temperature heat transfer fluid -28°C, canister of 30L
50070104002	High-temperature heat transfer fluid -28°C, drum of 200L
50070104003	High-temperature heat transfer fluid -28°C, container of 1000L

\* Store protected from light and heat.