



100% organic

Qfluid is a non-toxic biodegradable and high performance heat transfer fluid. This fluid is used for an optimal transfer of heat between the Qpanel PVT panels and heat pump.

In addition to the transport of energy, Qfluid offers frost protection to continue functioning in very cold conditions (down to -20°C operating temperature).



Efficient heat transfer

The Qfluid ensures a high efficient heat transfer.



Corrosion protection

Qfluid contains corrosion protection for several metals such as brass, steel, aluminum, copper and stainless steel. The Qsilence stainless steel piping and couplings are maximally protected.



Ready to use

Qfluid is a ready-mix and can be used immediately.



Long lifespan

Conventional glycols degrade (age) over the years, reducing frost protection. Due to the lack of glycol, Qfluid cannot degrade and therefore has a long lifespan.

Optimal viscose

Unlike other non-toxic conductive fluids, such as propylene glycol, Qfluid retains optimum viscose properties under very cold conditions.

This is because Qfluid is based on salt matrixes whose molecules remain smaller than with glycol. Especially with PVT systems, a high flow in cold conditions is desirable in order to achieve a high efficiency.

Technical specifications

Inhibitor content, % w/w	2 typ.	HPLC & EAF1
Water content, % w/w	73 typ.	ASTM D1123
Nitrite, amine, phosphate, borate, silicate	Nil	IC & EAF1
Color	Colorless	Visual
pH	8.8 typ.	ASTM D1287
Density, kg/l at 20°C	1.128 typ.	ASTM D1122
Density, kg/l at 80°C	1.093 typ.	ASTM D1122
Kinematic viscosity, mm ² /s at 20°C	2.5 typ.	ASTM D445
Kinematic viscosity, mm ² /s at 80°C	0.68 typ.	ASTM D445
Heat capacity, J/g.°C at 20°C	3.3 typ.	DSC2
Heat capacity, J/g.°C at 80°C	3.4 typ.	DSC2
Thermal conductivity, W/m.°C at 20°C	0.48 typ.	EWM3
Thermal conductivity, W/m.°C at 80°C	0.55 typ.	EWM3
Electrical conductivity, 20°C, mS/cm	90 typ.	Internal
Initial crystallization point, °C	-20 typ.	ASTM D1177
Equilibrium boiling point, °C	104 typ.	ASTM D1120
Reserve alkalinity, ml 0.1N HCl	48 typ.	ASTM D1121
Refractive index	1.373	ASTM D1218