



Heat from nature

NATURET®
heat transfer fluids

NATURET®-heat transfer fluids – the safe, ecological, and Finnish choice

NATURET® heat transfer fluids are Finnish **ethanol-based** products. Heat transfer fluids allow you to transfer natural heat from the soil, bodies of water and rocks into energy for heating homes, buildings and domestic hot water without harming the environment.

NATURET® heat transfer fluids, produced at Anora's Rajamäki factories, are safe and familiar products that have been used with excellent experiences for decades.

NATURET® heat transfer fluids are manufactured using denatured ethanol. Like ethanol, the methyl ethyl ketone and isopropanol we use as denaturants are environmentally harmless and biodegradable organic compounds.

The NATURET® product family has been renewed and is growing alongside the needs of our customers.

NATURET® products

Features	NATURET® Strong / NATURET® Strong GeoSafe	NATURET® / NATURET® GeoSafe	NATURET® -17°C / NATURET® GeoSafe -17 °C
Ethanol, wgt. %	88.8	60.0	28.0
Ethanol, vol. %	92.4	67.7	34.0
Density (+20 °C), g/cm ³	0.812	0.886	0.955
Flash point, °C	+18	+27	+29
Freezing point, °C	-95	-43	-17
Dilution ratio NATURET® : water	1:2	1:1	ready-to-use solution

GeoSafe products do not contain a corrosion inhibitor.

NATURET® products, packaging sizes: 20 l canister, 200 l barrel, 1000 l container and tanker delivery.

Please contact our customer service to determine availability:
t. +358 20 701 3648 or
anoraindustrial@anora.com



Information about ethanol

The primary raw material in NATURET®'s heat transfer fluids is ethanol. Ethanol is the most well known of all alcohols – a non-toxic, versatile chemical that biodegrades into carbon dioxide and water. Ethanol is a bright, colourless liquid with a burning taste and a boiling point of +78.3 °C. It is an easily flammable, combustible liquid that is soluble in water and most solvents.

The acute toxicity of ethanol is minimal. In the workplace, the concentration of ethanol in the air may be higher than that of any other organic solvent; for ethanol the TLV = 1000 ppm (8h). In water, ethanol breaks down into water and carbon dioxide.

Ethanol has a number of helpful properties that make it a useful raw material for many different purposes. In addition to the alcoholic beverage and food industries, ethanol is used for dissolving, extraction, cooling, as an antifreeze, dehydration, cleaning, disinfection, surface tension reduction, and fuel. It is also used as a laboratory chemical and chemical raw material across a wide range of industries.

Technical data, ethanol-water mixtures

Weight %	Volume %	Flash point / °C (Closed cup)	Freezing point /°C
10	12.4	52	-5
20	24.6	35	-11
30	36.3	29	-19
40	47.4	28	-29
50	57.9	28	-37
60	67.7	27	-43
70	77.0	25	-53
80	85.5	22	-70
90	93.3	18	-103
100	100.0	13	-110

Weight/volume % (+20 °C).

NATURET® heat transfer fluids are combustible liquids

- classification Highly flammable / Flammable
- VAK-classified products

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