



ADECO[®] FRIZANTIN[®] EKO 100%

Description:

ADECO[®] FRIZANTIN[®] EKO 100% is a concentrated Propylene Glycol based heat transfer fluid in heating and cooling systems. It contains high-performance corrosion inhibitors, each of which is adapted to the type, design and material of the equipment in which it is used. This ensures superior reliability and long service life. ADECO[®] FRIZANTIN[®] EKO 100% offers maximum protection against corrosion, freezing and collecting dirt. It forms a stable compound with water, so that it can be mixed with water in all ratios. It meets contemporary standards of environmental protection; it is biodegradable and does not pollute the water. It does not contain nitrites, phosphates or amines. It is non-toxic and not harmful!

Used in:

- equipment for heating and cooling, which is used in the production of food, beverages and medications;
- solar heating systems for drinking water;
- pump aggregates;
- underground heat exchangers;
- sprinklers for watering systems;
- water systems for heating and cooling;
- central heating systems;
- waste heat recovery heat exchangers;
- atmospheric heat exchangers;
- heating systems of football fields.

After being mixed with water, it can be used inside the temperature range between -50°C and + 140°C, depending on the concentration and the operating conditions.

Performance Benefits:

- ✓ it dissolves in water and is not harmful to the environment;
- ✓ contains corrosion inhibitors that protect all metal parts that are commonly used in heating, solar heating and the cryogenic plants against corrosion and scale deposits;
- ✓ facilitates efficient transfer of heat, preventing the formation of deposits on heat exchangers.



Physical and Chemical Characteristics:

Typical values	Frizantin Eko 100%	Test Method
Appearance	clear, colourless fluid	Visual
Boiling point, °C	>160	ASTM D 1120
Pour point, minimum, °C	<-50	DIN ISO 3016
Density at 20°C, g/cm ³	1.054 – 1.057	DIN 51757
Refractive index, n ²⁰ _D	1.435 – 1.438	DIN 51423
Viscosity at 20°C, mm ² /s	69 - 74	DIN 51562
pH value	6.5 - 8	ASTM D 1287
Reserve alkalinity, ml	10 - 13	ASTM D 1121
Flash point, °C	>100	DIN ISO 2592
Water content, %	4 max.	ASTM D 1123

Metal Corrosion in g/m², tested according to the method ASTM D 1384:

Material	Frizantin Eko 100%- water 1:2
Copper (Cu)	-0.1
Soft solder (L Sn 30)	-0.2
Brass (Ms 63)	-0.1
Cast iron (GG 26)	-0.2
Steel (HI)	-0.1
Cast aluminium (G AlSi6Cu4)	-0.3
Aluminium (Al 99.5)	-0.2

Table of dilution ratio and characteristics:

Vol., %	Density, g/cm ³	Refractive index, 20°C	Frost protection, °C
10	1.005	1.3450	-3.5
20	1.018	1.3563	-7.8
25	1.023	1.3627	-10.7
30	1.029	1.3689	-14.0
40	1.037	1.3801	-21.5
50	1.045	1.3910	-32.4
60	1.052	1.4019	-48.4

ADECO® FRIZANTIN® EKO 100% contains a very effective mixture of corrosion inhibitors that are adapted for individual use. They ensure long-term protection against corrosion and maximum reliability. The performances of the corrosion inhibitors that are part of the product ADECO® FRIZANTIN® EKO 100% exceed the standards of the industry.



When ADECO® FRIZANTIN® EKO 100% heat transfer fluid reaches its maximum static temperature in solar heating systems there is no problem, provided that the design, materials and heat transfer fluid of the system have been adapted for use.

In order to ensure maximum reliability, each lot of the product ADECO® FRIZANTIN® EKO 100% is subject to strict quality control. Our quality system is certified for ISO 9001 and ISO 14001. In this way we consistently provide high level of product quality.

The reliability of the product ADECO® FRIZANTIN® EKO 100% is an important economic factor in operation of heating and cooling systems. Long term operating costs are the decisive factor, rather than the price of heat transfer liquid.

ADECO® FRIZANTIN® EKO 100% has a shelf life of at least 3 (three) years in a hermetically sealed container.

Meets the following requirements of standards:

SRPS H.Z2.010, Type 2.

The quality is controlled by an accredited laboratory.

Packages:

Plastic containers of 10 litres, tin drums of 60 litres and 200 litres, and the IBC containers of 900 kg.