

Product information

Kühlsolekonzentrat N

Long-term antifreeze concentrate with corrosion inhibitors für cooling and heating systems (e.g. heat pumps, air conditioning, etc.)

Product data:

Look:	clear, green-tinted liquid	
Base:	mono ethylene glykol	
Poor point:	< -15°C	
Flashpoint (°C):	> 100°C	(ASTM-D 51758)
Boiling point:	> 150°C	(ASTM-D 1120)
Density (20°C)	1,11 - 1,12 g/cm ³	(DIN 51757)
Refractive index nD20:	1,425 - 1,435	
Water content:	< 2,5%	
pH-value specification: (1:1 with neutr. H ₂ O 20°C)	7,5 - 8,5	(ASTM-D 1287)
Viscosity (20°C):	25 - 30 mm ² /s	

Product features:

Kühlsolekonzentrat N is an odorless liquid, based on mono ethylene glykol, which is used in cooling and heating systems as a coolant or heat transfer fluid.

The special corrosion inhibitors to protect metals commonly used in plant and plastic materials, including copper and aluminum, from corrosion, formation of scale and.

This leaves the efficiency of the plants receive.

Sealing materials are not attacked by Kühlsolekonzentrat N.

Kühlsolekonzentrat N

- is completely miscible with water. It reached as delivered an anti-freeze >-50°C without segregate
- **don't dilute below 20% Kühlsolekonzentrat N share – corrosion safety**
- is miscible with all anti-freeze agents based on mono ethylene glycol
- Is free of nitrit, secondary amine, phosphate and borate.

General information:

The system should be flushed before filling with water and checked for tightness of all pipe joints, connections.

The plant should be ready to use immediately filled with brine to the N prints. No air enter!

Galvanized Plant parts are to be avoided, since zinc compared to glycols is unstable.

The heat transfer circuit should always be designed as a closed system with pressure equalization membrane vessels according to DIN 4807.

Entries consume oxygen, the corrosion inhibitors. Therefore only use low diffusion connectors or hoses.

Solder joints should be performed with Ag or with copper brazing, otherwise the system must be rinsed thoroughly.

Corrosion and erosion rates in g/m² (nach ASTM D 1384):

Aluminiumguss:	-0,3
Soft Solder:	0,9
Brass:	0,2
Copper:	0,2
Steel:	0,2
Cast Iron:	0,0

Material compatibility:

The heating plant and commonly used materials are not attacked.

Are not resistant polyurethane elastomers, phenolic formaldehyde resins, and soft PVC.

Dilution table:

Kühlsolekonzentrat N	Water	Frost protection
20 Vol.%	80 Vol.%	- 9°C
27 Vol.%	73 Vol.%	- 14°C
30 Vol.%	70 Vol.%	- 17°C
40 Vol.%	60 Vol.%	- 27°C
50 Vol.%	50 Vol.%	- 40°C

The product information contained in the safety data sheet and application-related information are based on our technical experience. The specifications/ figures are not firm commitments of certain properties. Produkt application for any particular purpose requires prior examination.

This product information does not release the customer from the obligation to incoming inspection in accordance with HGB 377/378.

For further information on our antifreeze fluids do not hesitate to contact our consultants of Staub & Co. GmbH. We will gladly give advice to you at any time.