



# High Performance Glycol-based Heat Transfer Fluid



## Overview

Coendurool is a MonoEthyleneGlycol based water soluble liquid which contains effective combination of corrosion inhibitors. It offers excellent protection against corrosion for different metals in coolant circuits e.g. Aluminum, Steel, Non ferrous metals, brass, copper.

## Area of application:

A suitably diluted solution of coendurool with distilled water can be used for

- Refrigeration Systems
- Various industrial cooling systems
- Process cooling & Heating
- Plastic extrusion, Spindle cooling, Plasma cooling etc
- Automotive

## Application Methods:

Coendurool is typically diluted as per requirements. A minimum dilution of 20 is used in application areas. Systems previously used with salt-based coolants or chloride rich brines must be thoroughly flushed with water otherwise the corrosion inhibiting effect of the product will be impacted. Any other type of coolant being circulated in the closed circuits should be kept completely separate.

Similarly, any system used with coendurool should be thoroughly flushed with water. Any empty systems should be thoroughly inspected before filling with Coendurool -water mixture.

## Determine degree of freeze protection

To achieve the desired freeze resistance, Coendurool is mixed with water. The water used to dilute Coendurool shall contain no more than 100 mg/kg (ppm) chlorides.

The mixing ratio is calculated as follows:

Freeze-protection	Concentration of Coendurool	Density at 20 ° C
- 9°C	20 vol%	1.032
-12°C	25 vol%	1.042
-20°C	35 vol%	1.055
-53°C	60 vol%	1.091

The ratio of Coendurool must be at least 20% by volume (corresponds to freeze protection down to - 9 °C) in order to obtain a sufficient corrosion protection.

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## Coolant and Heat transfer fluid

<b>BASIS</b>	<b>MONO ETHYLENE GLYCOL</b>
<b>PRODUCT PROPERTIES</b>	<b>approx</b>
Appearance at 20 °C	Colourless liquid
Density [g/cm <sup>3</sup> ] (20 °C)	1.10-1.40
Reserve alkalinity [ml 0.1m HCl /10 ml]	15-17
pH value 20 % in demineralized Water	7.00-9.00

These characteristics are for guidance only and are not to be taken as product specifications. The tolerances are given in the product specification sheet. For further information on product properties, toxicological, ecological and safety data, please refer to the safety data sheet.

## Safety, Toxicology and Ecology

Refer MSDS

Keep away from direct sunlight.

Material is harmful if swallowed

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