

COOLANT



CORROSION INHIBITOR

CEPSA INHIBITOR WB



DESCRIPTION

An organic, water-based and silicate-free corrosion inhibitor, designed for coolant manufacturing in the automotive and industrial sectors. Adding and mixing together ethylene glycol, deionised water, anti-foaming agent, colourants and bittering agents is recommended. The amount used should be proportional to the amount of protection required against freezing.

PRODUCT APPLICATION

- As a corrosion inhibitor in the manufacturing of coolants/antifreeze. Depending on the final concentration of the coolant produced, the amount of product to be used varies between 3.5% and 15% of the weight, 3.5% being the minimum amount.
- As a non-ethylene glycol coolant. When diluted in deionised water, it can be used as a coolant when antifreeze action is not required. Depending on the use, the recommended concentrations are:
 - 8% of the weight for stationary engines working under severe conditions, where protecting the aluminium against high-temperature corrosion is vital.
 - 5% of the weight for marine uses, where only limited protection against freezing is required. In such cases, 5%-CEPSA INHIBITOR WB can be used in combination with CEPSA SUPER COOLANT PURO in the following concentrations:
 - 20% volume concentration CEPSA SUPER COOLANT PURO for guaranteed protection at temperatures as low as -9°C;
 - 30% volume concentration of CEPSA SUPER COOLANT PURO for guaranteed protection at temperatures as low as -18°C.
 - 5% of the weight when used as cleaning fluid in cooling systems that have used other types of corrosion inhibitors
 - As a package of corrosion inhibitor for centralised heat transfer systems, non-flammable hydraulic fluids, fluids for mining.

PRODUCT PERFORMANCE

- Long-term corrosion protection for all metal engine parts including aluminium, iron, copper and brazing alloys. The corrosion inhibitors used to make CEPSA INHIBITOR WB have incredibly low consumption rates compared to traditional coolants, which contain inorganic inhibitors.
- Recommended for use in all types of internal combustion engine cooling systems.
- Especially suitable for cogeneration engines that work under severe conditions.
- Fully compatible with ethylene glycol coolants.
- Free from potentially hazardous additives such as nitrites and amines, making it more environmentally friendly, 100% biodegradable.

SPECIFICATIONS

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|----------------------------------|--------------------------|-----------------------------|
| • MIL SPAIN A-53009 | • NAVY BR1326 | • Yanmar |
| • Detroit Diesel Power Cool Plus | • Waukesha | • Deutz/MWM 0199-99-2091/11 |
| • GEC ALSTHOM | • GM HOLDEN | • HYUNDAI |
| • Jenbacher TA1000-0204 | • Liebherr MD1-36-130 | • MAN 248 |
| • MAN D36 5600 | • MB-312.0 | • MTU MTL 5049 |
| • NEUMAN - HAAS | • Ulstein Bergen 2.13.01 | • Wärtsilä TR 1508-10/94 |
| • Wärtsilä 32-9011 | • Wärtsilä DLP799861 | |

The typical values of the characteristics appearing in the table are average values given for guidance purposes only and do not constitute a guarantee. These values may be modified without any prior warning.

TYPICAL CHARACTERISTICS

CHARACTERISTICS	UNITS	METHOD	CEPSA INHIBITOR WB
Colour	-	VISUAL	Pale yellow
Density at 20°C	kg/L	ASTM D 4052	1.058
Standard pH	-	ASTM D 1287	9.5
pH in deionised water (5% v/v)*	-	ASTM D 1287	8.3
Reserve alkalinity of pH 6.5*	ml HCl 0.1N	ASTM D 1121	9.8
Storage stability	months	-	12

STORAGE AND HANDLING

Ideally, CEPSA INHIBITOR WB should be stored at room temperature and not exposed to temperatures below 4°C or above 35°C.

It is highly recommended that this product be kept out of direct sunlight as this will cause it to turn a much deeper yellow. This process will be accelerated if the sunlight coincides with high ambient temperatures. Therefore, if necessary, this product should be stored in covered spaces and in opaque containers.

If CEPSA INHIBITOR WB is stored in a closed container, it will maintain its original quality and performance for at least one year.

It is recommended that all equipment involved in the mixing and storage of this product is free from galvanised material.

HEALTH & SAFETY AND ENVIRONMENT

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product in accordance with the applicable legislation.