

REFRIGERANT / ANTIFREEZE

CEPSA COOLANT



DESCRIPTION

An organic, water-based silicate-free corrosion inhibitor with integrated defoaming properties, designed for coolant manufacturing in the automotive and industrial sectors. We recommend adding and mixing in ethylene glycol, deionized water, colorants and bitterant in the proportions needed to achieve protection against the required pour point.

PRODUCT APPLICATIONS

- As a corrosion inhibitor in the formulation of coolants/antifreeze. Depending on the final concentration of the formulated coolant, the percentage may vary from 3.5% to 15% by weight, considering 3.5% as the minimum threshold value to be used.
- As a coolant without ethylene glycol. Diluted in deionized water it can be used as a coolant when no antifreeze action is required. The recommended concentrations are given according to each application:
 - 8% by weight in stationary engines working in severe conditions and where protection of the aluminum against corrosion and high temperatures is very necessary.
 - 5% by weight in marine applications requiring limited protection against freezing. In these cases, CEPSA INHIBITOR WB-DF can be used at 5% in combination with the CEPSA SUPER COOLANT PURO coolant at a concentration of :
 - 20% by volume of CEPSA SUPER COOLANT PURO to guarantee a protection of -9°C
 - 30% by volume of CEPSA SUPER COOLANT PURO to guarantee a protection of -18°C.
 - 5% by weight as a cleaning liquid in cooling systems that have used other types of corrosion inhibitors.
 - As a package of corrosion inhibitors in centralized heat transfer systems, non-flammable hydraulic fluids or fluids used in mining.

PRODUCT PERFORMANCE

- Long-lasting protection against corrosion for all metal components of the engine including aluminum, iron, copper and welding alloys. The corrosion inhibitors included in CEPSA INHIBITOR WB-DF show extremely low consumption rates when compared to traditional coolants formulated with inorganic inhibitors.
- Recommended for use in all kinds of internal combustion engine cooling systems.
- Especially recommended for CHP engines working in severe conditions.
- Fully compatible with ethylene-glycol-based cool
- Contains no potentially harmful additives such as nitrites and amines, helping to better protect the environment. 100% biodegradable.

SPECIFICATION

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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 | |

TYPICAL CHARACTERISTICS

CHARACTERISTICS	UNITS	METHOD	CEPSA INHIBITOR WP-DF
Color	-	VISUAL	Pale yellow
Density at 20°C	kg/L	ASTM D 4052	1,058
Direct pH	-	ASTM D 1287	9,5
pH in deionized water (5% v/v)	-	ASTM D 1287	8,3
Alkaline reserve at pH 6.5	ml HCl 0,1N	ASTM D 1121	9,8
Stability in storage	month	-	12

STORAGE AND HANDLING

CEPSA INHIBITOR WB-DF should be stored at room temperature, avoiding exposure to temperatures under 4°C and over 35°C.

It is advisable to keep the product away from direct exposure to sunlight, since its color changes notably towards yellower tones and this occurs faster in high temperatures. Thus, if necessary, the product must be stored in covered spaces and in opaque containers.

CEPSA INHIBITOR WB-DF can be stored in a closed container for at least for one year maintaining its full quality and performance.

We recommend that the facilities used for the mixing and storage processes be kept free of galvanized materials.

HEALTH & SAFETY AND ENVIRONMENT

Existe la correspondiente Ficha de Datos de Seguridad conforme a la legislación vigente, que proporciona información relativa a la peligrosidad del producto, precauciones en su manejo, medidas de primeros auxilios y datos medioambientales disponibles.