

COLORCOOLING

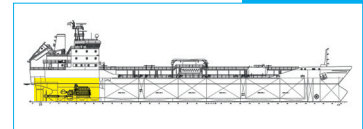
Liquid Antiscalant Cooling Water Conditioner Nitrite/Borate Base Colour Indicating

Technical Information

PHYSICAL DATA

Appearance:	Red liquid
Density:	1,2
pH 1%:	9,5-11

USAGE AREAS



APPROVALS



DESCRIPTION

It is a specially formulated corrosion inhibitor with alkaline builders and sequestering agent. It provides excellent corrosion protection for fresh water diesel engine cooling system. It can be used in all cooling system as jackets, pistons, injectors, cooling towers, coolers and piping. It contains a colour indicating system which turns the solution clear when the pH falls below the safe level of 8,3.

ADVANTAGES

COLORCOOLING is a efficient corrosion inhibitor. The eventual overdosages do not create any overheating.

- The concentration is easily determined on board by a simple analysis
- It is easy to use. It can be used also when the cooling water is used as combustible for the ships distillators.
- Conditions metals to resist rust and prevents scale from being formed in the fresh water system.
- Holds scale forming minerals in suspension.
- It contains a pink colour indicating its presence in the water even without analysis. When the pink colour change to colourless, pH has fallen below 8,3 or there is no more colorcooling in the system.

DIRECTION FOR USE

- Determine the quantity of treatment required for the system from the product dosage chart. NOTE: Sacrificial anodes (magnesium or zinc) and galvanised coatings contained inside the cooling water system must be removed prior of the addition of COLORCOOLING as these materials are unnecessary in the treated system and can cause undesirable deposits if allowed to remain. Consult the local Uniservice Unisafe Representative for additional information.
- The solution should be added to the system by addition to expansion tank or through a dosing line.
- Ask Uniservice Unisafe Representative eventual automatic dosing system to feed the product.
- System contaminated with oil and/or scale should be cleaned before applying COLORCOOLING treatment. Use SEACLEAN for degreasing and DESCALING LIQUID or POWDER for descaling operations.

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RECOMMENDATION FOR COOLING WATER TREATED WITH COLORCOOLING

Nitrite (NO ₂):	from 1500 to 3000 (see instruction below)
Chlorides:	Normal speed engine 100 PPM maximum High speed engine 50 PPM maximum
Hardness:	Max. 180 PPM CaCO ₃
pH:	From 8.5 to 9.5

In case the pH is below 8.5 add a small dose of ALKALINITY CONTROL to increase.

Always add COLORCOOLING in the point where circulation is high. Some new system's feeder tanks are only for expansion and have very little or no circulation. In case of loss of treatment levels check first for leakage in the system. Distilled / deionized water should always be used.

Call for Uniservice Unisafe Engineer in case the loss of treatment (Nitrite levels) is not due to leakages on the cooling system but to other reasons like BACTERIA CONTAMINATION or OXIDATION of NITRITE that will change in NITRATE decreasing the protection to the system. On new buildings or overhauled systems, Engine Manufacturer advises must be closely followed in conjunction with Uniservice Unisafe.

All competitors Nitrite/Borate based water treatments are compatible with COLORCOOLING but allow old product to drop to lowest limit and start dosing Uniservice Unisafe product. COLORCOOLING will slowly remove sludge and other residues during first period of operation. This will result in possible cloudy water which will clarify after draining small quantities of water. It is not necessary to remove all existing coolant unless inspection has shown excessive contamination. In case changing of treatment is performed after the soluble oil inhibitor type, a complete draining, cleaning and even degreasing of the circuit is advisable, but consult Uniservice Unisafe representative for the correct procedure of changing over to COLORCOOLING.

IMPORTANT NOTICE

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, this information is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you do a test to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by Uniservice Unisafe Srl hereunder are given gratis, and Uniservice Unisafe Srl assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.