

OBWT-3

DESCRIPTION

OBWT-3 is a liquid combination of low molecular weight components, neutralized organic acids, corrosion, scale and sludge conditioners. The specialized blended low molecular weight compounds are designed to elevate boiler water pH to levels, which reduce corrosion to the minimum possible in boilers (pH 10.5 - 11.0) with pressure of 7 to 50 bar. Use of these compounds also prevents under deposit corrosion, which is caused primarily by excess alkalinity in standard conventional treatments. The advanced polymer technology will condition hardness salts, modifying their crystalline structure as they precipitate at elevated temperature. The resulting crystal is non-adherent, light and remains in circulation with the water, enabling it to blow down easily. At the same time an organic compound is formed throughout the boiler protecting it from corrosion.

APPLICATIONS

OBWT-3 is suitable for all auxiliary boiler plants on motor ships including dual pressure-boiler primary system. OBWT-3 is suitable for boilers up to 20 bar, for best results we strongly recommend continuous dosage into the feed system, via a UNIMARINE dosing pump and tank unit.

DIRECTIONS FOR USE

OBWT-3 can be added directly to the feed water. We strongly recommend that this be done using a dosing pump. It is also recommended to continually dose OBWT-3 in conjunction with OBWT-4 using a UNIMARINE dosing pump/tank unit. The boiler water must meet the following conditions:

P-alkalinity	: 100-150 PPM CaCO ₃
Chloride content	: max. 150 - 300 PPM Cl
PH	: 10.5 to 11.0
Conductivity	: 400 to 1,000 mho

Use UNIMARINE TEST SET for testing.

INITIAL DOSAGE

OBWT-3 is dosed at 0.4 lt. per metric ton boiler water. Allow the boiler water to be conditioned for 24 hours and then carry out a P-alkalinity test. Adjust product dosage as necessary to obtain a P-alkalinity of 100-150 PPM. At the same time determine the chloride content. If the chlorides are too high, give the boiler a top and bottom blow-down.

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OBWT-3

Organic boiler water treatment
for pH, corrosion, scale
and sludge control

- Environmentally safe, non-toxic product
- Highly specialized combined polymer technology
- Organic corrosion control
- Stops excessive caustic build-up
- Prevents hardness scale and sludge deposit build up
- Elevates pH 10.5 -11.0
- Operates with low dissolved solid levels
- Quick, simple and accurate testing

PRODUCT CHARACTERISTICS

Appearance:	brown liquid
Specific gravity:	1,1 (20°C)
pH:	>13
Flash point:	none
IMO Class:	8 / II
UN Number:	1814
ADR:	8.42b)

UNIClean

DAILY DOSAGE

Re-check P-alkalinity and increase dosage of *OBWT-3* if necessary to maintain pH or p-alkalinity level, a minimum of 0.2 lt./day should be dosed to maintain correct treatment levels in conjunction with regular top to bottom blow down. This dosage can vary according to conditions i.e. size of the boiler system, make up quality etc.

NATURE OF SPECIAL RISKS AND SAFETY ADVICE

In accordance with the latest EEC Council directives this product is subjected to:

- R35 : Causes severe burns.
- S2 : Keep out of reach of children.
- S26 : In case with contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S27 : Take off immediately all contaminated clothing.
- S36/37/39 : Wear suitable protective clothing, gloves and eye / face protection
- S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label if possible)

Contains approximately 14% potassium hydroxide and low molecular weight hydroxides.