

# OBWT 3

## Organic Boiler Water Treatment

### Technical Information

#### PHYSICAL DATA

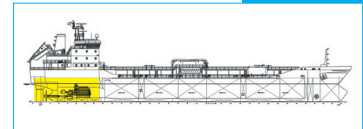
OBWT-3 is a brown liquid containing neutralized organic acids, pH, corrosion, scale and sludge conditioners. After using the treatment the boiler water will be clear and straw colored.

Specific gravity (20° C): 1,21

Flashpoint PM CC: none

Ph (1% solution): 13

#### USAGE AREAS



#### APPROVALS



#### DESCRIPTION

Uniservice Unisafe OBWT-3 is a liquid combination of low molecular weight components, neutralized organic acids, corrosion, scale and sludge conditioners. The specially blended low molecular weight compounds are designed to elevate boiler water pH to figures which reduce corrosion to the minimum levels possible in boilers (pH 10,5-11,0) with pressure of 7 to 50 bar. The use of these compounds also prevent "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 temperatures. 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.

#### APPLICATION

OBWT-3 is suitable for all auxiliary boiler plants on motorships 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 UNIservice dosing pump and tank unit.

#### ADVANTAGES

- Environmentally safe, non-toxic product
- Highly specialized combined polymer technology
- Organic corrosion control
- Stops excessive caustic build-up
- Avoid hardness scale and sludge deposits
- Elevates pH 10,5-11,0
- Operates with low dissolved solid levels
- Quick, simple and accurate testing

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## DIRECTION FOR USE

**Standard water treatment:** OBWT-3 can be added directly to the feed water. We strongly recommend this is done by using a dosing pump. It is also recommended to continually dose OBWT-3 in conjunction with OBWT-4 using a Uniservice Unisafe dosing pump/tank unit.

The boiler water must meet the following conditions:

p-Alkalinity:	100-150 ppm CaCO <sub>3</sub>
Chloride content:	max 100 ppm Cl (never exceed 300)
pH:	10,5 to 11,0
Conductivity:	400 to 1.000 Micromhos

Use UNITEST PAK 3 kit for testing.

## INITIAL DOSAGE

OBWT-3 is dosed at 0,4 liters 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.

## DAILY DOSAGE

Recheck p-Alkalinity and increase dosage of OBWT-3 if necessary to maintain pH or p-Alkalinity level.

A minimum of 0,2 ltr/day should be dosed to maintain correct treatment levels in conjunction with regular top and bottom blow down. This dosage can vary according to conditions ie. size of the boiler system, make up water quality etc.

## 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.