

OBWT 3

Organic Boiler Water Treatment

Technical Information

Physical Data

Appearance:	Brown liquid
Specific gravity (20°C):	1.21
Flashpoint PMCC:	None
pH (1% solution):	13

Description

Uniservice Unisafe 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. 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 levels that reduce corrosion to the minimum levels possible in boilers (pH 10.5-11.0) with pressures of 7 to 50 bars. The use of these compounds also prevents "under deposit" corrosion, primarily caused 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 the dual-pressure boiler primary system. OBWT-3 is suitable for boilers up to 20 bar. For the best results, we strongly recommend continuous dosage into the feed system via a Uniservice dosing pump and tank unit.

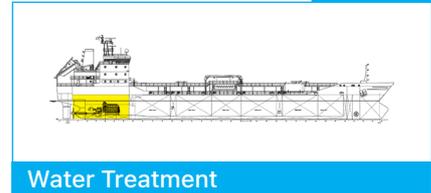
Advantages

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

Direction For Use

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

USAGE AREAS



PACKAGING



APPROVALS



OBWT 3

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The boiler water must meet the following conditions:

- ▶ p-Alkalinity: 100–150 ppm CaCO₃
- ▶ Chloride content: Maximum 100 ppm Cl (never exceed 300)
- ▶ pH: 10.5 to 11.0
- ▶ Conductivity: 400 to 1000 µΩ

Note: use the UNITEST PAK 3 kit for testing.

Initial Dosage

1. OBWT-3 is dosed at 0.4 liters per metric ton of boiler water.
2. Allow the boiler water to be conditioned for 24 hours and then carry out a p-Alkalinity test.
3. 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 blowdown.

Daily Dosage

1. Recheck p-Alkalinity and increase the dosage of OBWT-3 if necessary to maintain pH or p-Alkalinity level.
2. A minimum of 0.2 liters per day should be dosed to maintain correct treatment levels in conjunction with regular top and bottom blowdown. This dosage can vary according to conditions, such as the size of the boiler system and makeup water quality, etc.

Safety and Environment (HSE)

Uniservice Unisafe Srl have carefully developed their products to minimize the safety risks and environmental impact of using their products. However, Uniservice advises that, prior to using its products, users should read in detail the accompanying Safety Data Sheet and ensure that its products are applied within the required HSE regulations of the country in which the user operates. Best practice and safety requirements should be followed which will likely include method statements and risk assessments, together with any specific requirements of the user's own company HSE requirements.

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. Product images are for reference purposes only.

Contact

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