

OBWT-4

1. DESCRIPTION

UNI AMERICAS' **OBWT-4** is an environmentally superior oxygen scavenger based on neutralized organic acids and a blend of volatile / neutralizing amines. The function of the neutralized organic acids is to remove oxygen from the feed water and form an organic iron compound on the steel surfaces of the boiler. **OBWT-4** also provides excellent protection on copper-based metals. The specialized blend of amines has little or no effect on the boiler itself, but carry over with the steam in a gaseous form, condensing wherever steam has done work and reverts to water (condensate). This in turn elevates the condensate pH (9.0-10.5), neutralizing the carbonic acid and filming the system, protecting it from corrosion. **OBWT-4** filming properties also reduce corrosion on shut down lines, when moisture and oxygen are present.

2. APPLICATIONS

OBWT-4 is dosed at a rate, which maintains a pH range of **pH 9.0-10.0** in the condensate returns. Oxygen entrainment largely depends on Hotwell temperatures and if these are maintained at above 80°C the condensate pH range of **pH 9.0-9.5** is adequate. If Hotwell temperature control is erratic and averages less than 80°C tighter control is necessary and condensate returns should be kept in the range **pH 9.5-10.0**. It is not necessary to carry out oxygen or product residual tests.

3. DIRECTIONS FOR USE

It is recommended that **OBWT-4** be dosed continuously in conjunction with **OBWT-3** via a metering pump / tank unit, discharging directly into the feed system and/or the exhaust gas economizer circulating pump discharge. It must NEVER be slug dosed to a running system via a hotwell or by-pass feeder.

4. INITIAL DOSAGE

Consult your local UNI AMERICAS' Service Engineer for recommendations of the dosage rate based on specific problems and requirements onboard.

5. OTHER INFORMATION

- Environmentally safe, non-toxic product.
- Effective oxygen scavenger.
- Highly specialized single product for control of corrosion throughout the condensate system.
- Quick, simple and accurate testing.
- An effective iron tannate film assures excellent boiler surface protection.

**(ORGANIC BOILER WATER TREATMENT)
ENVIRONMENTALLY SUPERIOR
ORGANIC OXYGEN
SCAVENGER AND CORROSION
INHIBITOR FOR FEED, STEAM,
AND CONDENSATE SYSTEMS**

Product Highlights

- Environmentally safe, non-toxic product.
- Effective oxygen scavenger.
- Highly specialized single product for control of corrosion throughout the condensate system.
- Quick, simple and accurate testing.
- An effective iron tannate film assures excellent boiler surface protection.

Product Characteristics

| | |
|-------------------|--------------|
| Appearance: | Black liquid |
| Corrosive action: | None |
| Specific gravity: | 1.0(20°C) |
| Flash Point: | None |
| pH: | 9.0 to 10.5 |

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