

OBWT-4

DESCRIPTION

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 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 carries over with the steam in a gaseous form, dissolving finally into the condensate. This reaction 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 during shut down in lines where moisture and oxygen are present.

DIRECTIONS FOR USE

OBWT-4 is dosed at a rate to maintain a pH of 9 - 10.5 in the condensate returns. Oxygen entrainment is largely influenced by the hotwell temperatures. If these are maintained above 75°C, the condensate pH range of pH 9 - 9.5 is adequate. If hotwell temperature control is erratic and averages less than 75°C, tighter control is necessary and condensate returns should be kept in range pH 9.5 - 10.5. It is not necessary to carry out oxygen or product residual tests.

INITIAL DOSAGE

OBWT-4 is initially dosed at 0.2 lt./m³ boiler water. Systems showing signs of corrosion should be increased to 0.7 lt./m³ boiler water for the first few days in order to passivate all metal surfaces.

DAILY DOSAGE

After initial dose, start metering at a minimum of 0.4 lt./day continuously and adjust to obtain correct condensate pH.

DOSING EQUIPMENT

It is recommended that *OBWT-4* be dosed continuously in conjunction with *OBWT-3* via a metering pump and 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 the hotwell or by-pass feeder.

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OBWT-4

Organic oxygen scavenger
and corrosion inhibitor
for feed water, steam lines
and condensate systems

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

PRODUCT CHARACTERISTICS

Appearance:	brown liquid
Specific gravity:	1,1 (20°C)
pH 1% solution:	10,8
Flash point:	none

IMO Class:	not regulated
UN Number:	not regulated
ADR:	not regulated

UNIClean

NATURE OF SPECIAL RISKS AND SAFETY ADVICE

In accordance with the latest EEC Council directives this product is not subjected to any recommendation.
Voluntary UNIMARINE recommendation:

R38 : Irritating to the skin

S2 : Keep out of reach of children

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice