

DESCRIPTION

DREWPLEX® AT boiler water treatment is a phosphate-based treatment combined with synthetic polymers providing the ultimate solution in simplicity, system flexibility and treatment control for low and medium pressure boilers. DREWPLEX® AT boiler water treatment provides a cleaner boiler by allowing greater tolerance of feedwater quality fluctuations.

The polymers in DREWPLEX® AT boiler water treatment serve as deposit control agents by adsorbing onto the surface of boiler water precipitates, keeping the particles soft, non-adherent and easily transported through blowdown. Iron dispersancy is also achieved with DREWPLEX® AT boiler water treatment by sequestering deposits caused by iron.

In addition to combining alkalinity control, scale inhibitors and deposit control, DREWPLEX® AT boiler water treatment provides protection from corrosion in the afterboiler section caused by low pH. When coupled with DREWPLEX® OX corrosion inhibitor, DREWPLEX® AT boiler water treatment provides the most modern, safe and effective approach to a boiler water treatment program. DREWPLEX® AT treatment may also be used with AMERZINE® or AMERSITE® CHZ corrosion inhibitors.

DREWPLEX® AT boiler water treatment is NSF registered as a nonfood compound under category G6, a water treatment product used in boiler steam lines for food contact in food processing establishments. It is also registered under category G7, a water treatment product used in boiler steam line for nonfood contact in food processing establishments.



Nonfood Compounds
G6, G7

FEATURES

- Dispersant properties
- Crystal modifiers
- Sludge conditioning
- Neutralizing amine
- Phosphate and alkalinity treatment
- Simple feed and control

APPLICATION & USE

Dosage, Testing, and Control

Continuously dose diluted DREWPLEX® AT treatment with diluted DREWPLEX® OX corrosion inhibitor or AMERZINE® corrosion inhibitor using the DREW™ Beta Metering System to the feedwater line downstream of the feedwater recirculation offtake, which returns water to the hotwell or cascade tank. If there is no feedwater recirculation, dose continuously to the feed pump suction. A less preferred method is a gravity feed flowmeter arrangement because volatiles can be lost as the recirculated water is returned to the hotwell or cascade tank. If a gravity feed flowmeter arrangement is used, the dosage point should be to the hotwell or cascade tank. The chemical feed line should extend below the normal water level (approximately 1 meter) and as close to the feed pump suction as possible.

DREWPLEX® AT treatment should be diluted with distilled water or condensate in the dosage tank and dosed continuously over a 24-hour period in keeping with system demands. Daily dosage will depend on system capacity, purity and quality of condensate returns and the quality and amount of makeup water to the system. The recommended initial dosage of DREWPLEX® AT treatment is 2.5 to 5 liters per ton of water in the boiler system. Once the system has been initially dosed and is in operation, the daily hydrate alkalinity test result determines the necessary dosage.

DREWPLEX® AT treatment dosage and blowdown are determined by simple boiler water tests. Testing for hydrate alkalinity in the boiler water determines the DREWPLEX® AT treatment dosage. Testing for neutralized conductivity in the boiler water determines the blowdown. For details on

BENEFITS

- Keeps particles in suspension
- Prevents scale buildup on tubes
- Promotes efficient heat transfer
- Soft sludge easily removed by blowdown
- Cleaner boiler
- Less downtime
- Fewer acid cleanings
- Lower maintenance costs
- Condensate pH corrosion control
- Scale inhibition
- Operator ease



Contact your Drew Marine representative for more information

testing procedures, refer to the DREWPLEX® AT treatment and DREWPLEX® OX corrosion inhibitor control and dosage chart, or the DREWPLEX® AT treatment and AMERZINE® corrosion inhibitor control and dosage chart, or contact your local Drew Marine representative.

Makeup Water Quality

The primary purpose of a boiler water treatment program is to keep the boiler free of deposits and corrosion. The most efficient method for keeping the boiler free of deposits is to provide distilled makeup water. DREWPLEX® AT boiler water treatment is formulated to handle feedwater hardness upsets.

Blowdown

Good blowdown procedures are essential to the effectiveness of any boiler water treatment program and should be carried out according to the boiler manufacturer's instructions. Surface blowdown is necessary to reduce dissolved and suspended solids. Normal maintenance surface blowdown is sufficient up to a neutralized conductivity of 700 $\mu\text{S}/\text{cm}$. Above a neutralized conductivity of 700 $\mu\text{S}/\text{cm}$, the frequency of surface blowdown should be increased. In addition, weekly flash-blowdown of the header drains or steam separator (where applicable) is recommended to minimize sludge accumulations.

TYPICAL PROPERTIES

Appearance:	Light brown liquid
Freezing Point:	-8.8° C
Specific Gravity @ 25°C:	1.06 gm/cm ³ (66 lbs/ft ³)
pH (Neat):	13.4
Flash Point (PMCC):	None
Freeze/Thaw Stability:	Complete

NOTE: Always wear the appropriate personal protective equipment when using this product.

PACKAGING

DREWPLEX® AT boiler water treatment is available in 25 liter pails (PCN 6598405).

IMPORTANT INFORMATION

Drew Marine maintains Safety Data Sheets on all of its products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees.

Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



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