

## DESCRIPTION

AGK-100 is a boiler and feed water treatment which provides an effective and easily applied program for protection of all low/medium pressure (up to 32 kg/cm<sup>2</sup>/450 psig) exhaust gas economizers and auxiliary boilers using distilled water make-up.

The major advantage of AGK-100 treatment is complete protection in one product.

## APPLICATION

### Dosage, Testing and Control

Continuously dose diluted AGK-100 treatment 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 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.

AGK-100 treatment should be diluted with good quality 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 to the system.

Good quality distilled makeup water is recommended for use with AGK-100 treatment. The recommended initial dosage of

AGK-100 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.

AGK-100 treatment dosage and blowdown are determined by simple boiler water tests. Testing for hydrate alkalinity in the boiler water determines the AGK-100 treatment dosage. Testing for hydrazine in the boiler water determines supplemental AMERZINE corrosion inhibitor dosage. Supplemental AMERZINE corrosion inhibitor dosage is necessary only when the hydrazine level is not maintained by AGK-100 treatment dosage alone. Testing for neutralized conductivity in the boiler water determines the blowdown. For details on testing procedures, refer to the AGK-100 treatment 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. Since AGK®-100 boiler and feed water treatment is a multi-component blend of scale and corrosion inhibitors, the maintenance of proper chemical balances in the boiler and feed water system requires that the makeup water be of a uniform high quality. Using only high purity makeup water will minimize scaling and tube failure.

### 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

## FEATURES

- Complete low-pressure boiler water treatment
- Simplified feed and control

## BENEFITS

- Eliminates need for multiple product inventory
- Minimizes oxygen and low pH corrosion in condensate and steam systems
- Conditions sludge
- Prevents scale and corrosion in the boiler
- Promotes efficient heat transfer
- Operator ease



Contact your Drew Marine representative for more information

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 PHYSICAL PROPERTIES

|                           |                    |
|---------------------------|--------------------|
| Appearance:               | Dark, amber liquid |
| Specific Gravity @ 25° C: | 1.03-1.05          |
| Flash Point (PMCC):       | None               |
| Freezing Point:           | -2.2° C            |
| pH (Neat):                | 13.9               |
| Freeze/Thaw Stability:    | Complete           |

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

## PACKAGING

AGK-100 boiler and feedwater treatment is available in 25- liter pails (PCN 0014407).

## 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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