

BWT ONE SHOT

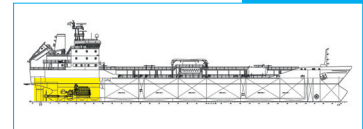
Complete Boiler Water Conditioner

Technical Information

PHYSICAL DATA

| | |
|-----------------------------|-------------------|
| Appearance: | Colourless liquid |
| pH in 1% Solution in Water: | 11.7 |
| Flash Point: | None |

USAGE AREAS



APPROVALS



DESCRIPTION

Liquid compound containing alkaline mineral salts, sequestering agents, scale and corrosion inhibitors and sludge conditioners.

- One shot treatment product
- Heating surfaces kept at optimum thermal condition
- Promotes protective iron oxides to prevent boiler steel corrosion
- Dispersant action suspends sludge/sediment particles
- Overall boiler efficiency maintained at peak levels

APPLICATION

Suitable for use with all auxiliary boilers: waste heat units, economisers, package boilers, low pressure water tube boilers, smoke tube boilers and steam generators to:

- Control Scale Formation
- Inhibit corrosion
- Condition sludge/sediment particles to render non-adhering and to enable effective removal by routine blowdown.

ADVANTAGES

- Versatile single product treatment applied as a complete boiler conditioning system.
- Dissolved hardness salts of calcium and magnesium contained in feed water tend to precipitate due to the effects of heat forming scale compounds that impair heat transfer. BWT ONE SHOT converts potential hard scale-forming salt to inert, non adhering soft sludge particles which are kept in suspension.
- The formation of scale is finally eliminated when the sludge particles are removed by blowdown/scumming. BWT ONE SHOT provides a phosphate reserve to effectively neutralise hardness salts which may be introduced with the feed water.
- The balanced alkalinity supplied by BWT ONE SHOT assures:
 1. The correct environment for the precipitation of hardness salts.
 2. The proper conditions to maintain silica in solution.
 3. The suitable level of alkalinity to prevent corrosion.
- A protective iron oxide layer is formed under correct alkaline conditions to protect boiler steel surfaces contacting with the boiler water to prevent corrosion.
- BWT ONE SHOT further inhibits corrosion due to traces of free oxygen in feed water.

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DIRECTIONS FOR USE

Determine the quantity of BWT ONE SHOT for treating the boiler by obtaining a representative sample of the boiler water and performing the appropriate analysis. The product should be added to the feed water by a dosage line or directly into a feed tank.

Blowdown and scumming operations must proceed at regular intervals to remove sludge/sediment particles.

PRODUCT DOSE AND CONTROL

Initial dose for an untreated system is 1 liter of BWT ONE SHOT per 1000 Ltr. untreated water.

Thereafter the dosage rate of BWT ONE SHOT is based on alkalinity and is given in the charts overleaf to return boiler water to mid point values of the respective control limit. The mid point value is circled.

| | | | | | | | | | | |
|--------------------------------------|---|-----|-----|-----|-----|----------|-----|-----|-----|-----|
| "P" ALKALINITY ppm CaCO ₃ | 0 | 50 | 100 | 150 | 200 | 225 | 250 | 300 | 350 | 400 |
| BWT ONE SHOT L/1000L | 1 | 0.8 | 0 | 0 | 0 | Blowdown | | | | |

Note: The above phosphate and alkalinity values may not necessarily correspond. In cases of poor quality feed water, increased dosages may be required: and where P alkalinity values are persistently low, the use of ALKALINITY CONTROL is recommended to boost alkalinity. The pH values of the boiler should be kept between 10-12.

SAFETY AND HANDLING

- Alkaline Product - do not ingest or inhale, avoid contact with skin and eyes.
- Rubber gloves, safety goggles and protective clothing should be worn.
- If product or solution contacts with the skin, rinse copiously with water.
- In cases of eye contact, wash immediately with copious quantities of water for at least 20 minutes and seek medical aid.
- Product should be stored so that there is no risk of contact with other chemicals.
- The Testing Equipment to measure boiler water quality and control treatment with BWT ONE SHOT is available from Uniservice Unisafe.
- Special Log forms to record test results and treatment levels are available from Uniservice Unisafe.

Please contact your nearest Uniservice Unisafe representative for further details

IMPORTANT NOTICE

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