



KEM – B.T.

BOILER COMPOUND, NAVY

Description

KEM – B.T. is used in the treatment of boiler feed water for marine boilers on Naval vessels. **KEM – B.T.** meets the requirements of Military Specification MIL-B-3242B.

Advantages

- Economical for use highly active phosphate based compound.
- Dissolves easily in water for dosing.
- Eliminates scale problems due to calcium.
- Maintains sludge in a non – adherent state for ease of blow down.
- Simple test to determine level of treatment.
- Can be used for boilers of all pressures.
- The alkalinity in the system is not influenced by **KEM-B.T.**

Usage

KEM – B.T. is formulated to form a precipitate with calcium ions, which will not adhere to metal surfaces but are in a form suitable for blowdown.

Dosage

KEM – B.T. is used in controlled amounts so that a free phosphate level is maintained in the boiler. This level is determined by the boiler pressure.

Initial dosage is 30-50 gr. per ton of water and depends on the quality of feed water.

Dosing Method

For best results dose **KEM – B.T.** directly to the boiler via the bypass pot – feeder.

The dry powder should be dissolved in hot water (50° C) at a ratio of 1 part powder to 20 parts condensate (e.g. 500 grams/ 10 liters). Ensure that treatment is fully dissolved before dosing.

Sample and testing

A representative sample of boiler water should be drawn for analysis daily. The sample should always be taken from the same point after blowdown, cooled and tested immediately.

Maintain phosphate level 20-50 PPM depending on the boiler pressure.



USE THE TABLE:

Select the section corresponding to the pressure of the boiler to be treated and read across the table to obtain the level of treatment required.

KEM-B.T. – DOSAGE – GRAMS/tons

Pressure range	Phosphate test result in p.p.m PO ₄					Standard	Initial Dosage	Dose Gram/ton
	0-10	10-20	20-30	30-40	40-50			
0-40 Bar	25	15	Satisfactory	Satisfactory	Satisfactory	Blowdown	20-50	25
41-60 Bar	20	10	Satisfactory	Blowdown	Blowdown	Blowdown	15-30	20
> 60	15	Satisfactory	Satisfactory	Blowdown	Blowdown	Blowdown	10-25	15

These are recommended values based on experience and are in no way intended to replace the boiler manufacturer's specifications or company regulations.

Caution

Avoid contact with skin and eyes. For further information refer to Material Safety Data Sheet.