

KEM HARD LIQUID

PHOSPHATE TREATMENT FOR BOILER WATER

Product Code :
Product Group: BOILER WATER TREATMENT
Packaging: 25L, 210L

PRODUCT DESCRIPTION

KEM HARD LIQUID is a liquid product used for the reduction of hardness in boilers. It will precipitate calcium hardness as a non – adherent sludge.

KEM HARD LIQUID is characterized as a safe additive in the preparation of steam that will contact food in accordance with U.S. regulations FDA (CFR code *173.310 Boiler Water Additives*).

USAGE

KEM HARD LIQUID 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 HARD LIQUID 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 50-130 milliliters per ton of water and depends on the boiler pressure.

DOSING METHOD

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

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 10-50 PPM depending on the boiler pressure.

BENEFITS

- Economical for use highly active phosphate based compound.
- 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 HARD LIQUID**.

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 HARD LIQUID – DOSAGE –MILLILITERS PER TONNE OF WATER

Pressure range		Phosphate test result in ppm PO ₄					Standard	Phosphate Initial Range (ppm)	Initial Dose milliliters/ Tonne
		0-10	10-20	20-30	30-40	40-50			
0-40 Bar 0-588 Psi	Dose of kem hard liquid milliliters per Tonne of water	130	100	Satisfactory	Satisfactory	Satisfactory	Blowdown	20-50	130
41-60 Bar 603-880 Psi		60	30	Satisfactory	Blowdown	Blowdown	Blowdown	15-30	60
> 60 Bar >880 Psi		50	Satisfactory	Satisfactory	Blowdown	Blowdown	Blowdown	10-25	50

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

HEALTH SAFETY

Please refer to the Material Safety Data Sheet and Product Label for specific information.

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