

KEM-HARD

PHOSPHATE TREATMENT FOR BOILER WATER

Product Code: Q00016

Product Group: BOILER WATER TREATMENT

Packaging: 25L

PRODUCT DESCRIPTION

KEM – HARD is a highly soluble, dry powder product used for the reduction of hardness in boilers. It will precipitate calcium hardness as a non – adherent sludge.

KEM HARD is characterized as a safe food additive in accordance with U.S. regulations FDA (CFR code 173.310 Boiler Water Additives).

APPLICATION, DOSAGE & CONTROL

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

KEM – HARD 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 25-50 gr. per ton of water and depends on the quality of feed water.

For best results dose KEM – HARD directly to the boiler via the bypass pot – feeder. The dry powder should be dissolved in hot water before adding into the boiler. Ensure is fully dissolved before dosing.

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.
- 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-HARD.



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 – DOSAGE – GRAMS/TON OF WATER

Pressure range				Phosphate test	result in ppm P0	O ₄ Standard		Phosphat	Initial
		0-10	10-20	20-30	30-40	40-50	50 +	e Range (ppm)	Dose Gram/ton
0-40 Bar 0-588 Psi	Dose of Kem	40	30	Satisfactory	Satisfactory	Satisfactory	Blowdown	20-50	50
41-60 Bar 603-880 Psi	Hard grams per	20	10	Satisfactory	Blowdown	Blowdown	Blowdown	15-30	30
> 60 Bar >880 Psi	Ton of water	15	Satisfactory	Satisfactory	Blowdown	Blowdown	Blowdown	10-25	25

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.

LIMITATION OF LIABILITY

EUROCHEM INTERNATIONAL standard <u>terms and conditions</u> of sale, available on request, apply and contain limitations on any liability that may be incurred by EUROCHEM INTERNATIONAL arising in any way from the sale and use of products supplied by EUROCHEM INTERNATIONAL.