



KEMOX – LS
(OXYGEN SCAVENGER)
CATALYZED SODIUM BISULPHITE LIQUID

Product Description: KEMOX – LS is a catalyzed sodium bisulphite (40% sodium bisulphite) in liquid form used mainly in low and medium pressure boilers up to 850 PSI.

Product Uses: KEMOX – LS is used as an oxygen scavenger in boiler water treatment, reacting with oxygen to form inert sodium sulphate. The catalyst ensured rapid reaction times so that complete oxygen removal can be achieved. Rapid oxygen removal means minimal corrosion plus extended boiler life.

KEMOX – LS may also be used for the removal of chlorine, 2,5 ml of KEMOX – LS removes 1 gr. of free chlorine.

Features and Benefits :

- ❑ Concentrated liquid product.
- ❑ Protects the boiler from oxygen corrosion.
- ❑ Catalyzed product for very rapid action.
- ❑ Reacts at low temperature.
- ❑ Will act as an aid to mechanical deaeration.
- ❑ Simple control test.

Dosing Method: Quantity of KEMOX – LS required will depend on the boiler operating conditions. A reserve of 20 – 30ppm Sulphite is maintained in the boiler water, depending on operation pressure and boiler design. As a guide, 20ppm of KEMOX – LS is required for one ppm of oxygen. There are several points where the treatment can be dosed. The main point is into the boiler feed water line. Check Sulfite level and increase or decrease the dosage according to the dosage chart below.

Sample and Testing : A representative sample of boiler water must be obtained, at an interval to be set by experience in the operation of the boiler. For example, this could be daily or every three days (according to boiler type and pressure).

The test results indicate the level of treatment in the boiler. If the levels are incorrect, the treatment will have to be adjusted accordingly, with more frequent testing until a steady state is reached. It is important that regular testing is carried out to ensure levels of treatment are correct.

SULFITE : Dosage of KEMOX – LS catalyzed bisulphite

| Boiler pressure PSI Kg/cm² | | Residual Range (ppm as SO₃) | Dosage Requirements |
|---|----------|---|--------------------------------------|
| a) Up to 450 | Up to 32 | 20 – 30 | Satisfactory |
| b) 450 – 850 | 32 – 60 | 10 – 15 | Satisfactory |
| (a) or (b) | | Below satisfactory, Increase dosage by 25% | |
| (a) or (b) | | Above satisfactory, Decrease dosage by 25% | |

Caution: Irritating to eyes. Contact with acids liberates toxic gases. Wear suitable protective clothing, gloves and eye/face protection (for further instructions refer to M.S.D.S.).