

PRODUCT & TECHNICAL DATA

TYPE: ALL-IN-ONE BOILER INTERNAL TREATMENT, CORROSION INHIBITOR, CONDENSATE LINE CORROSION INHIBITOR

BOS-L25-HP is an ALL-IN-ONE boiler programme containing oxygen scavengers, internal treatments and condensate line corrosion inhibitors. It contains sulphite ions as well as a specialized alkaline reacted polymer containing a hexamer comprising of polyacrylic; poly-organophosphorous, polymaleic, polysulphonic and other polymeric sequestering and organic absorption agents. It is specifically designed for the control and systematic removal of hardness deposits, organic foulants and metallic contaminants in steam generation systems and process pipework and vessels. Dosage is directly proportional to specific contaminants and direct test methods are available for ideal control of the product.

TYPICAL PROPERTIES

Appearance	:	Dark Brown Liquid
Total Solids	:	40-50%
pH neat soln. at 25°C	:	12.5 – 13.5
Specific Gravity at 25°C	:	1.18 – 1.23

APPLICATION

BOS-L25-HP Polymer Residual Index is nominally controlled at between 250-350mg/l in the boiler circuit water. These dosages should be altered dependent upon feed water conditions; E.g. High Oxygen, High Hardness and/or Metallic Salts such as Fe; Cu etc. It is imperative that the oxygen scavenger level has a sulphite residual of 15-30mg/l as SO_3^- .

Therefore, dosage calculated as follows:

mg/l BOS-L25-HP to boiler feed water = $2.35[(\text{Total Hardness in Feed} \times 1.44) + (1.89 \times \text{Fe in Feed}) + (\text{Residual Required/Effective Cycles of Concentration.})$

There is a specific test method for the determination of the residual **BOS-L25-HP**. This is a titrimetric method and is immediately available.

BOS-L25-HP is also available as a spray dried powder – **BOS-S50-HP**.

BOS-S50-HP can be diluted at 25% m/m and residual is controlled at 250-350 mg/l in the boiler water, but dosage undertaken will be reduced by approximately 20%.

mg/l BOS-S50-HP 25% reconstituted powder blend to boiler feed water = $1.88 \times [(Total\ Hardness\ in\ Feed \times 1.44) + Fe\ in\ Feed \times 1.89] + (Residual\ Required/Effective\ Cycles\ of\ Concentration)$

STORAGE AND HANDLING

BOS-L25-HP can be stored for up to 24 months from the date of manufacture, in its original, sealed packaging, at room temperature in a dry area. Bags must be kept undercover and out of direct sunlight. This product can be safely stored in plastic type holding tanks designed to manage the specific gravity listed. **BOS-L25-HP** must be protected from freezing. Protective clothing such as gloves and goggles should be worn when handling **BOS-L25-HP**.

HEALTH AND SAFETY

BOS-L25-HP is of low toxicity and any residue monomers present have low toxicity. The product is alkaline and eye contact or prolonged skin contact may cause irritation. Should contact occur, hands should be washed with soap and water and eyes well irrigated for fifteen minutes. Ingestion will induce vomiting and should be treated symptomatically. Spillages must be contained to allow for safe disposal. Avoid direct flushing to storm water drain. Please refer to product SAFETY DATA.