

PRODUCT & TECHNICAL DATA

TYPE: BOILER INTERNAL TREATMENT – POLYMERIC SOLUBILISING

BIT-L50-HP is a unique and 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 systematic control and 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 Activity	:	50%
pH neat soln. at 25°C	:	12.5 – 13.5
Specific Gravity at 25°C	:	1.18 – 1.23

APPLICATION

BIT-L50-HP is nominally controlled at between 200-300mg/l in the boiler circuit water. These dosages should be altered dependent upon feed water conditions; E.g.: High Hardness and/or Metallic Salts such as Fe; Cu etc.

mg/l BIT-L50-HP to boiler feed water = [(Total Hardness in Feed x 1.44) + (1.89 x Fe in Feed) + (Residual Required/Effective Cycles of Concentration.)

There is a specific test method for the determination of the residual **BIT-L50-HP**. This is a titrimetric method and is immediately available.

BIT-L50-HP is also available as a spray dried powder – **BIT-S98-HP**.

BIT-S98-HP can be diluted at 25% m/m and adding 10-20% sodium hydroxide lye (45-50% concentration). The residual is controlled at 200-300 mg/l in the boiler water, but effective dosage undertaken will be reduced by approximately 20%.

mg/l BIT-S98-HP 25% reconstituted powder blend + 10-20% NaOH lye to boiler feed water = 0.8 [(Total Hardness in Feed x 1.44) + Fe in Feed x 1.89) + (Residual Required/Effective Cycles of Concentration)]

STORAGE AND HANDLING

BIT-L50-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 of **BIT-S98-HP** 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. **BIT-L50-HP** must be protected from freezing. Protective clothing such as gloves and goggles should be worn when handling **BIT-L50-HP**.

HEALTH AND SAFETY

BIT-L50-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.