



Steam Boiler Spares and accessories for Traction Engines, Locomotives and heritage steam engines and Boilers.

## **BOILER WATER TREATMENT**

### MULTITREAT TS - PRODUCT DATA SHEET APPLICATION

**Application :** **Multitreat TS** is a liquid blend of oxygen scavenger, polymeric sludge conditioner and alkalinity builder suitable for ferrous metals in the treatment of feed waters for hot water systems. In particular preserved steam locomotive boilers where both the feed water and boiler water remain static for long periods out of use.

**Multitreat TS** is a single pack treatment that acts first to minimize corrosion whilst the boiler is sitting doing nothing and secondly acts to stop the build up of scale on the inner surface of the boiler by keeping the calcium and magnesium salts present in the water mobile and so preventing them from sticking to the exposed metal surfaces of the boiler

**Multitreat TS** is a Tannin based water treatment that is preferred for use in cold feed water and in particular where the boiler is out of use periodically. The Tannin molecule is able; within its complex chemical structure to absorb oxygen from the feed water and at the same time form a protective iron tannate film on the exposed metal surfaces.

**Multitreat TS** should be dosed directly into the cold feed water tanks.

**Dosing :**

The precise dose rate will be difficult to define and will depend on the quality and hardness of the water supply. It is appreciated that without the use of chemical test kits and the variation of water supply dosing is very much guess work. As a guide we would suggest adding at the start of the season about a half pint (250ml) to the cold feed water tanks and allow this to feed into the boiler. The amount of treatment can be judged by the colour of the boiler water in the gauge glass, which should have the appearance of 'Tea' or 'Bitter Ale'. If the appearance is more like 'Guinness' or you can't see through it, then it is likely that the dosage is too high. When the water colour is weakened to that of 'Lager' it is likely you need to add further treatment to the feed water. For model boilers we would recommend no more than a cap full to add to the water tank to start off or in a relevant proportion to these guidelines. Dosage is ideal at 0.3% or 3000ppm.

**Prolonged over dosing of the boiler water should be avoided.**

**REGULAR BLOWING DOWN OF THE BOILER AND WASHING OUT AT INTERVALS IS RECOMMENDED**

**INDUSTRIAL BOILERHOUSE SUPPLIES LTD.**

*Incorporating*

**HERITAGE STEAM SUPPLIES**

Unit 34 Brunel Way, Brunel Way, Segensworth East, Fareham, Hampshire, PO15 5SF

Tel: 01489 570737 - 8 Lines Fax: 01489 570767 info@ibhs.co.uk

www.ibhs.co.uk

www.heritagesteamsupplies.co.uk