

## Complete Boiler Conditioner for Low Pressure Boilers

### Product Description

COMBITREAT is a dry powder compound containing alkaline mineral salts, sequestering agents, scale and corrosion inhibitors and scale conditioners.

### DIRECTION FOR USE:

The main attributes of COMBITREAT fall into the following categories:

Alkalinity control: The correct level of alkalinity ensures that the optimum environment exists for:-

- § Correct precipitation of hardness salts in conjunction with phosphate
- § Neutralisation of acid conditions
- § Avoidance of caustic corrosion
- § Control of magnesium and calcium salts

The alkalinity 'balance' is extremely important for efficient water treatment. COMBITREAT provides this whilst avoiding excessive pH levels which could cause embrittlement and corrosion of boiler components.

Hardness control: COMBITREAT provides a phosphate reserve to effectively react with and precipitate the hardness salts introduced with the feedwater. The formation of insulating scale on hot metal surfaces is prevented as the scales produced will not adhere and so optimum heat transfer efficiency is maintained. The stable phosphate compounds used in COMBITREAT will maintain their efficiency throughout the boilers normal operating temperature range. A temporary 'phosphate hideout' where low phosphate levels at certain temperatures are experienced, is thus avoided.

Sludge Conditioning: Boiler sludge can most easily be removed by blow down if it is free flowing. COMBITREAT will ensure this by preventing the scales from coalescing to form large crystals or adhering to metal surfaces. The resulting sludge is composed of small particles which are dispersed so that it will flow towards the bottom of the boiler to be removed by blow down.

### PRODUCT PROPERTIES:

Appearance : Light brown powder  
Condition: Free flowing  
pH: 11 @ 20°C

### FEATURES & BENEFITS

- § Complete 'one-shot' conditioning treatment for simplified dosing and handling.
- § Boiler kept at peak level efficiency
- § Heating surfaces maintained at optimum thermal conditions.
- § Promotes protective films to prevent boiler steel corrosion
- § Dispersant action suspends sludge and sediment particles.
- § Reduced maintenance due to complete conditioning of water and internal boiler surfaces.

### APPLICATIONS:

Suitable for use with all auxiliary boilers; smoke and water tube boilers; steam/steam generators, up to 20 bar pressure.