

# OptiSperse\* HP73303

## internal boiler treatment

- Advanced boiler polymer
- Incorporates the patented HTP-2 boiler polymer
- Protection against metallic oxide deposition
- Environmentally preferred Product
- Liquid Formulation
- Convenient boiler water product test

### description and use

OptiSperse HP73303 is a liquid blend of phosphate and the advanced, patented HTP-2 polymeric dispersant.

HTP-2 is the most effective boiler deposit control agent for (iron/copper) oxides yet developed.

OptiSperse HP73303 incorporates an inert tracer in order to monitor the appropriate boiler water concentration.

Separate feed of an oxygen scavenger and neutralising amine may be required to give a complete internal treatment programme.

### problem description

Deposition reduces efficiency and is the principal cause of overheating and caustic corrosion failures. Iron and copper corrosion products returning with the condensate are the major deposit-forming contaminants. Systems with high purity feedwater or high percentage condensate return typically experience iron and copper feedwater contamination.

These systems frequently operate at high cycles of concentration; this results in long residence times and can increase the rate of metallic oxide deposition.

The presence of iron and copper in the feedwater must be controlled in order to minimise the accumulation at boiler heat transfer surfaces.

## Water Technologies & Solutions fact sheet

### typical applications

When metallic oxides enter the boiler, the HTP-2 polymer is highly effective in dispersing them. Optiperse HP73303 inhibits deposition through crystal structure and surface charge changes. The polymer will adsorb onto the metal particles, control their growth, alter surface charge and inhibit deposition on heat transfer surfaces. The result is that the solids are easily removed from the boiler water by blowdown.

OptiSperse HP73303 should be used as part of a coordinated phosphate/pH based program in order to effectively control boiler deposition and prevent losses associated with boiler tube failure.

OptiSperse HP73303 is particularly effective in high purity/high pressure systems where iron is the dominant contaminant.

### treatment and feeding requirements

**Feed point** - Normally to the boiler steam drum via a separate chemical injection line, and fed on a continuous basis.

In certain cases it may be acceptable to feed the product to the deaerator storage section or the boiler feedwater line. Consult your local SUEZ Representative.

**Feed rate** - The feed rate of OptiSperse HP73303 is determined by system conditions, such as boiler pressure feedwater quality and cycles of concentration.

**Dilution** - OptiSperse HP73303 can be fed neat or diluted in any proportion with good quality feedwater or condensate. When the product is fed direct to the boiler drum it must be diluted.

## general properties

The physical properties of OptiSperser HP73303 are shown on the Safety Data Sheet, a copy of which is available on request.

## packaging information

OptiSperser HP73303 is a liquid blend and is available in a wide variety of customised containers and delivery methods. Contact your local SUEZ representative for details.

## safety precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.

**LENNTECH**

info@lennotech.com Tel. +31-152-610-900

www.lennotech.com Fax. +31-152-616-289