

WSB PROTECTOR



Food grade
Oxygen scavenger
And metal
passivator

Corrosion inhibitor

Water Services LTD

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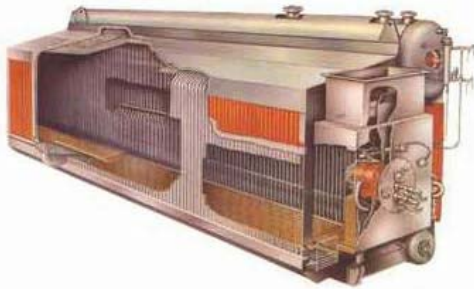
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WSB PROTECTOR

Use

WSB PROTECTOR corrosion inhibitor is used to inhibit corrosion in steam generating systems by removing dissolved oxygen from feedwater and boiler water.

WSB PROTECTOR is a highly effective combination product on basis of liquid blend of oxygen scavenger and metal passivator.



WSB PROTECTOR is an oxygen scavenger that works rapidly, effectively and safely to passivate deaerators, feedwater systems and boilers. It also reduces feedwater iron levels and insulating iron deposits on boiler tubes to help minimize fuel wastage.

The major ingredients in **WSB PROTECTOR** are sodium erythorbate as oxygen scavenger and metal passivator, and sodium Bisulfite as Oxygen scavenger

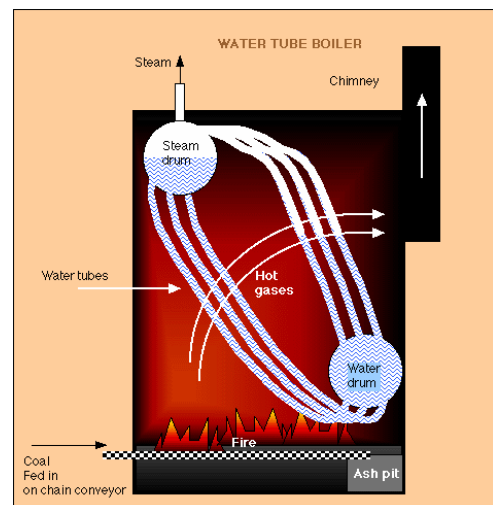
Features

WSB PROTECTOR reacts with oxygen in water almost instantaneously, even at low temperatures. This rapid rate of reaction provides greater protection to the boiler and feedwater section, especially where complete mechanical deaeration is not provided.

WSB PROTECTOR is a liquid blend of sodium bisulfite and specially selected catalytic agents which will not interfere with steam generator operations.

WSB PROTECTOR benefits include:

- Highly effective, low cost, liquid , non-steam volatile oxygen binding media on basis of sodium ascorbate and sodium Bisulfite.
- This product is especially suitable for use in non thermally deaerated feed waters, in the food and pharmaceutical industry and for direct steaming.
- Increases equipment life by minimizing pitting corrosion.
- Reduces energy cost by minimizing insulating iron oxide deposit.
- Reduces deterioration of the steam and condensate lines by minimizing oxygen infiltration from the boilers.
- The catalyst accelerates oxygen removal.
- Helps protect the pre-boiler system and the boiler from unscheduled downtime due to oxygen corrosion
- Enhances metal passivation of iron and copper, minimizing metal corrosion and resultant boiler deposition; can result in extended equipment life
- Does not require specialized feed systems — liquid product minimizes housekeeping and mixing problems



WSB PROTECTOR

- Contributes no measurable solids to the boiler, so blowdown levels on sulfite programs can often be reduced — a significant energy savings
- Highly effective alkalization media and corrosion inhibitor for steam and condensate systems.
- Non contains free caustic, so does not induces carry over or caustic attack, under overfeed conditions, or when incoming oxygen levels will be lowered
- Ingredients are in compliance with FDA and USDA regulations pertaining to boiler water additives



- Non induces dangerous or corrosive gases to the steam MEK or Hydrazine.
- Ready to react as it is and does not require thermal activation like Methyl Ethyl Ketoxime and Carbohydrazide does.

Appearance :

clear, very pale pink liquid

Density (kg/m³) : 1290

pH : 4.2

Freezing point : -9°C

These data are to be seen as typical values and should not be considered as specifications.

Feeding

Recommended feeding method is continuously to the feedwater line, either as a dilute solution or neat.

The dosage is dependent upon feedwater analysis as well as boiler operating conditions.

Handling precautions Wear suitable gloves and safety goggles. In case of contact immediately flush with plenty of water. After eye contact seek medical advice.

In case of spillage, absorb with sand or other absorbent materials and sweep up. Then flush the area with water.

Before use review the Material Safety Data Sheet for additional information..

Transport classification

A.D.R. : 8-17c

IMDG : 8-8126

U.N.nr. : 2693-III

Labelling for handling

WSB PROTECTOR

Symbol : Xi; Irritant

R-phrases : 31, 36/37/38

S-phrases : 14, 36/37/39, 46

Packaging

WSB PROTECTOR is packed in 30 kg jerrycans, 250 kg PE drums and 1250 kg containers.

FDA information

The Federal Food and Drug Administration has no objection to the constituents used in the manufacture of WSB PROTECTOR for treating boilerwater where steam directly contacts food or food products.



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