

WATER TREATMENT *Solutions*



SUPERHOT NST Boiler Treatment



- Controls corrosion
- Prevents scale and sludge
- Prolongs equipment life
- Minimizes fuel consumption
- No mixing required



CARE FOR WORK ENVIRONMENTS®

SUPERHOT NST Boiler Treatment

SCALE AND CORROSION CONTROL

SuperHot NST is a boiler protection system that includes both corrosion and scale control. Its unique formula is ideal for those that prefer to not treat their steam/condensate system or prefer to feed a separate product as it does not contain steam line protection ingredients. For steam line protection, we recommend the addition of SuperHot Steam Treatment.

Oxygen pitting is one of the most devastating actions that can occur in steam boilers. Once corrosion starts to occur, it is difficult to stop and will eventually result in costly downtime and repair.

Traditionally, oxygen pitting is controlled using an oxygen scavenger, such as sodium sulfite, to chemically remove dissolved oxygen. In the past, this approach has always worked well since boilers maintain system pressure continuously. Today, however, boilers are not operated in the same way. Energy concerns have forced operations to cycle boilers "on/off"; this style of operation allows dissolved oxygen to enter the boilers. These high levels of dissolved oxygen can quickly deplete any residual sulfite, leaving the boiler vulnerable to oxygen attack.

In addition to providing effective scale control, SuperHot NST utilizes a unique high-temperature, non-consumable film-forming corrosion inhibitor system. This system provides excellent protection against corrosion, regardless of the level of oxygen entering the boiler.

SuperHot NST is much easier to control and maintain than the conventional sulfite-based scale and corrosion inhibitors. SuperHot Complete will also protect the boiler during the late fall and early spring when low loads cause the boilers to be off-line for long periods of time.

SuperHot NST is NSF certified for treating boilers, steamers and cooling systems (G7) where neither the treated water or steam come into contact with edible products in and around food processing areas.

DIRECTIONS FOR USE

SuperHot NST should be fed to the feed water tank or condensate receiver directly from the shipping container. No product dilution or mixing required.

Feed SuperHot NST to the feed water at a rate of 2.0 - 2.5 gallons per 1,000 gallons of boiler blowdown water. Maintain sodium molybdate at 80 - 160 ppm.

Perform bottom blowdown at specified periods to remove accumulated solids. System TDS levels are determined by the quality of the available fresh water make-up. Your State Account Manager will review the water conditions of the boiler system and recommend a TDS for your system.

SuperHot NST is a complete boiler program without steam line protection. No additional oxygen scavenger products are required. For steam and condensate protection, feed SuperHot Steam Treatment separately.

DO NOT USE SODIUM SULFITE OR METABISULFITE PRODUCTS WITH SUPERHOT NST.

SuperHot NST should be added with a pump and controller similar to the State Industrial Products boiler controller. For systems with high condensate return and low fresh water make-up requirements, a pump and timer system, such as the State 24/7™ Feed Pump, can be used.

For best results, it is recommended that the make-up water to the boiler system be softened.

Please review the label and SDS for all product directions, precautions and first aid information.

TECHNICAL DATA

APPEARANCE: clear, light amber liquid

PH: >13.0

ODOR: amine

DENSITY (LB/GAL): 9.08 lbs

PRODUCT TESTING AND CONTROL:

MOLYBDENUM TEST RANGE: 80-160 ppm

HYDROXIDE ALKALINITY: >200 ppm as OH

P-ALKALINITY: 300-500 ppm

TOTAL ALKALINITY: 700 ppm max

PACKAGING

124437	55 GL Drum
124436	15 GL Drum
124435	5 GL Drum



State Industrial Products
5915 Landerbrook Drive
Mayfield Heights, OH 44124
To Order Call: 1-866-747-2229
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