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Product Bulletin

6253
VOLATILE OXYGEN CONTROL

APPLICATION
Oxygen attack on return condensate lines and heat-transfer surfaces is a common contribution to metal-loss. Metal-loss (especially pitting) eventually leads to a rupture causing a loss of condensate and energy. It is vital that oxygen presence in condensate be controlled to prevent such metal-loss. The oxygen control components of product **6253** work together to control oxygen corrosion of return condensate lines and heat exchanger metal.

The advantage of volatile oxygen scavengers is oxygen removal throughout the steam generating system. Other types of scavengers contact oxygen only in feed and boiler water. Volatile scavengers are carried by the vapor phase into steam distribution and condensate return lines. Such permeation of the entire system leads to better overall protection. Oxygen is contacted for longer periods of time and is thoroughly eliminated.

Product **6253** is a blend of volatile oxygen scavengers. It effectively removes oxygen with high reaction rates at temperatures between 70°F and 500°F. The resulting benefit is rapid and complete removal of dissolved oxygen. With oxygen removed, internal metal components of the steam generation and utilization system are protected from this source of corrosion.

SAFETY & HANDLING PROCEDURE
This product is mildly irritating by all means of exposure; inhalation, skin, ingestion, and eye. Refer to Material Safety Data Sheet for protection measures when handling this material. Follow MSDS storage and handling procedure.

FEEDING TECHNIQUE
This product may be added by chemical metering pump directly from the shipping container or diluted in water in a chemical feed tank fitted with an agitator. The chemical is best added directly to the storage tank of the deaerator. Semi-modulating the feed may be achieved by using the feedwater pump control signal. Other feeding methods include addition to boiler feedwater or steam. Do not use transfer equipment with PVC or rubber parts.

DOSAGE
Initially charge the system at the rate of 8 ounces per 1,000 gallons of system capacity. Maintain system by feeding product **6253** at the rate of 4 to 8 ounces per 1,000 gallons of makeup water.

CONTROL
Maintain a residual of 0.2 to 0.5 parts per million of active hydroquinone in the system at all times. Daily testing is recommended to maintain proper control. Failure to monitor and maintain treatment levels can cause damage. It is the customer's responsibility to monitor and maintain treatment levels.

PHYSICAL PROPERTIES
pH of 1% Solution	7.0-9.0
Pounds per Gallon	8.1-8.6
Physical Appearance	Brown-Yellow Liquid
Odor	Mild Amine
Flash Point	>200°F

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