



OPTIGUARD™ MCA4288 All-in-One Treatment

- Contains a patented polymer for enhanced deposit control performance
- Applicable as a complete, all-polymer, all-in-one liquid boiler treatment
- Superior control of hardness and iron deposition
- Improves boiler efficiency by maintaining cleaner heat transfer surfaces
- Maximum flexibility and forgiveness
- Convenient, safe, easy-to-apply liquid concentrate
- Excellent for systems without a deaerator
- Contains neutralizing amine to provide effective condensate system protection

DESCRIPTION AND USE

OPTIGUARD™ MCA4288 is an advanced, multicomponent formulation that includes a unique dispersant blend, oxygen scavenger, and neutralizing amines. It provides a complete boiler system treatment in a single, easily fed liquid concentrate.

OPTIGUARD MCA4288 controls deposit formation through two surface adsorption mechanisms: dispersion and crystal modification.

Dispersion - The patented polymer contained in this product adsorbs strongly to deposit particles and internal boiler surfaces, altering their normal surface charge properties. The attraction between particles and surfaces is greatly reduced. This inhibits both particle growth and attachment to surfaces. The result is a stabilized suspension of colloidal particles, readily removed through blowdown.

Crystal Modification - The polymer distorts the normal crystalline structure of deposit particles, so that normal growth is prevented. This prevents the formation of large, unstable particles that settle onto boiler surfaces.

OPTIGUARD MCA4288 promotes maximum boiler efficiency by preventing the formation of both hardness and metal oxide deposits on boiler heat transfer surfaces.

OPTIGUARD MCA4288 also contains a highly effective oxygen scavenger to control oxygen corrosion in the preboiler and boiler systems. OPTIGUARD MCA4288 is formulated so that it is particularly effective in controlling dissolved oxygen corrosion in systems which do not have a deaerator. If diluted product is fed to the system, a covered day tank should be used to maintain oxygen scavenger efficacy.

OPTIGUARD MCA4288 contains a blend of neutralizing amine with selected stability and volatility. Characteristics of this amine blend provide controlled protection at points of initial condensation and in extended areas of complex condensate systems. This extends equipment life and increases the efficiency of heat exchange equipment.

TREATMENT AND FEEDING REQUIREMENTS

Proper treatment levels for OPTIGUARD MCA4288 depend on many factors particular to a given boiler system. The product should be used in accordance with control procedures that GE Betz establishes for a specific application.

OPTIGUARD MCA4288 may be fed neat, or diluted to any convenient strength with softened makeup, condensate, or feedwater. The preferred feed point for OPTIGUARD MCA4288 is to either the feedwater tank or hot well.

Feed systems should be constructed of 304 or 316 stainless steel. Tanks should be high density, cross-linked polyethylene. PVC should not be used in this service.

PACKAGING INFORMATION

OPTIGUARD MCA4288 is a liquid blend, available in a variety of containers and delivery methods. Contact your GE Betz representative for details.

STORAGE

Store OPTIGUARD MCA4288 at moderate temperatures and protect from freezing. If frozen, thaw completely and mix thoroughly prior to use. Exposure to atmospheric oxygen should be minimized. Mix product thoroughly in its container before first use.

SAFETY PRECAUTIONS

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

