

X - 2569

Anti-scale and Corrosion for Boiler

Anionic Dispersing and scale inhibitor

For Boiler Water Treatment

TECHNICAL INFORMATION

X - 2569 is a low molecular weight copolymer for use the chemical treatment of boiler. In addition of X - 2569 to a water treatment program effectively prevents the accumulation of scale and sludge.

X - 2569 also disperse or conditions accumulated sludge allowing for easy removal by blowdown in boiler systems. By keeping deposits from forming on the water side surfaces. X - 2569 helps to maintain efficient heat transfer and decrease the incidence of boiler clean up thus lowering operating costs.

X - 2569 effectively controls undesirable formation of calcium phosphate in cooling water system.

The ability of X - 2569 to disperse iron oxide sludge and other particulate improves the energy efficiency of Boiler water system and allows corrosion inhibitors to function more efficiently.

BENEFITS AND FEATURES

1. Effective dispersant for scale and sludge.
2. Effective inhibitor for calcium phosphate and calcium sulfate.
3. Effective crystal modifier for calcium sulfate, calcium carbonate and calcium phosphate.
4. Effective dispersant for iron oxide.
5. Effective at low feed levels.
6. Highly anionic.

7. Thermally stable.
8. Chemically stable
9. Low order of toxicity.

X - 2569 is an anionic dispersing and scale inhibitor developed for use in aqueous system to remove and control scale and other deposits caused by calcium, barium, aluminum, iron and other polyvalent cations.

X - 2569 has a low toxicity to warm-blood animals. Its acute oral toxicity to rats is only one tenth that of sodium hydroxide, a product commonly used in the processing of food. It is composed of materials that have been allowed for use in the manufacture of paper and paperboard under U.S. Food and Drug Administration (FAD) Regulations 175.105, 176.170, 176.180 and 176.210 and in the production of cane sugar and beet sugar under Regulation 173.5. The U.S. Department of Agriculture Consumer and Marketing Service has found X - 2569 acceptable for treating boiler water, steam lines or cooling system in official establishments operating under the Federal meat, poultry, shell egg grading and egg products inspection programs, steam for boiler water treated with X - 2569 is allowed to contact edible products.

PRODUCT CHARACTERISTICS

X - 2569 is a liquid packed in non-returnable plastic drums with bungs. It dissolves readily in water and is not corrosive to cast iron, mild steel or stainless steel. Other materials satisfactory for storing and handling

X - 2569 include neoprene, molded nylon, pentane, Teflon, polyethylene and polypropylene.

Some of the physical properties of

X - 2569 are as follows ;

Density at 25°C	1.35 g/ ml.
Approximate volume per kilogram	740 ml.

pH of 100 ppm in distilled water 7.8 – 8.5

This is concentrated product. It may solidify on exposure to cold weather. It should be heated to 20 °C if any solids are present.

Workmen handling the product should wear rubber gloves and goggles and should avoid contact with clothing, skin or eyes. Observe other precautions shown on the label.

X - 2569 can be fed into the system directly from the shipping containers by use of chemical feeding pumps.

METHOD OF USE

X - 2569 is provided as a 25 % solids solution to eliminate the need for dissolving and to feeding to system being treated.

Feed rates can be controlled by common metering system.

CHEMISTRY

X - 2569 is a unique combination of sulfonate phosphonate and carboxylate groups on a low molecular weight carbon backbone. It is a highly charged anionic polyelectrolyte that is chemically and thermally stable. It is compatible with common water treatment chemicals.

SHIPPING AND STORAGE

X - 2569 is supplied in 63 gallons weather pack plastic drums or in bulk. Product will freeze ; should be stored in a temperature protected facility.

SAFETY AND HANDLING

X - 2569 is recommended for industrial use only. Because toxicological properties have not been fully explored, we recommend that normal precautions be taken to avoid ingestion or contact with the eyes or skin.

PRODUCTS SPECIFICATIONS

Total Solids Content , %	24.0 - 26.0
pH, as received	6.0 - 8.0