



Steamate™ NA2160 Condensate Treatment

- Controls corrosion of equipment and piping
- Minimizes deposition of corrosion products in boiler system

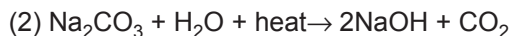
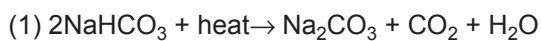
DESCRIPTION AND USE

Steamate™ NA2160 is a neutralizing amine which volatilizes with the steam. It is designed to quickly neutralize the acidic components of steam and minimize the aggressiveness of unbuffered condensate. This reduces the pickup of copper and iron corrosion products.

TECHNOLOGY

Corrosion in steam condensate systems is frequently a problem. Carbon dioxide is the most common cause of corrosion.

The feedwater alkalinity is the chief source of carbon dioxide because bicarbonate and carbonate break down at elevated temperatures to form carbon dioxide gas. The reactions are as follows:



The first reaction is 100 percent complete; however, the decomposition shown in the second reaction proceeds to only about 80 percent completion.

At points of condensation, carbon dioxide dissolves in water to form carbonic acid. This depresses the pH and causes etching of the metal. The characteristic acidic corrosion shows up as thinning and grooving of the metal at and below the water level.

TREATMENT AND FEEDING REQUIREMENTS

Proper treatment levels for Steamate NA2160 depend on many factors particular to a given installation. Although the condensate pH is usually maintained in a noncorrosive, alkaline range of 8.0 to 8.5, the product should be used in accordance with control procedures established for a specific application.

Steamate NA2160 should be mixed with softened makeup, condensate, or feedwater to make a chemical feed solution of any convenient strength. It is compatible with most boiler water treatment formulations. However, the solution strength should not exceed ten percent by weight.

PACKAGING INFORMATION

Steamate NA2160 is a liquid blend, available in a wide variety of customized containers and delivery methods. Contact your representative for details.

STORAGE

Store Steamate NA2160 at moderate temperatures and protect from freezing. If frozen, thaw completely and mix thoroughly prior to use.

SAFETY PRECAUTIONS

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