

MURC 5501 (pH Boosters)

Boiler Water pH Booster (Either Low Or High)

THEORY OF pH

In chemistry, pH is a measure of the acidity or basicity of an aqueous solution. Pure water is said to be neutral, with a pH close to 7.0 at 25 °C (77 °F). Solutions with a pH less than 7 are said to be acidic and solutions with a pH greater than 7 are basic or alkaline. A pH (potential of Hydrogen) measurement reveals if a solution is acidic or alkaline (also base or basic). If the solution has an equal amount of acidic and alkaline molecules, the pH is considered neutral. Very soft water is commonly acidic, while very hard water is commonly alkaline, though unusual circumstances can result in exceptions. The pH scale is logarithmic and runs from 0.0 to 14.0 with 7.0 being neutral. Readings less than 7.0 indicate acidic solutions, while higher readings indicate alkaline or base solutions. Some extreme substances can score lower than 0 or greater than 14, but most fall within the scale.

pH RELATED CORROSION

Acid Attack

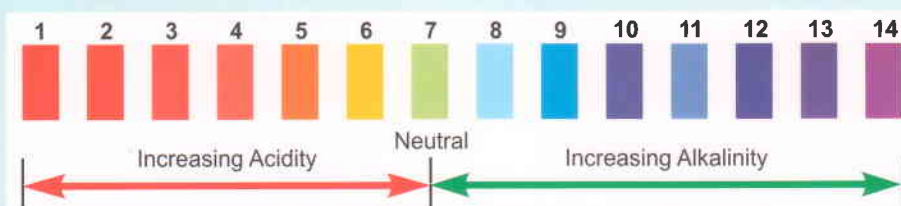
Some times boiler water pH drops below 8.5, at this stage a corrosion called acid attack can occur due to the sources like leaks in demineralizers, process leaks of acid or acid-forming materials into the return condensate system etc.

Caustic Attack

Caustic attack on boilers is a localized attack due to extremely high pH (12.9+). It can take forms caustic cracking, also called "caustic embrittlement". Caustic attack or caustic corrosion, this is due to high caustic concentration, deposits of phosphates or other 'scale' occur in high heat transfer areas.

MURC 5501 (pH BOOSTERS)

MURC 5501 (pH Boosters) is a synergistic blend of neutralizing amines that will neutralize carbonic acid and other mineral acid and boost alkalinity and pH without increasing TDS. If pH is higher (12.9+) it will reduce to limit by another blend (custom made). In either case Boiler feed water pH shall be controlled within 8.5 to 9.5 limits.



CORROSION REDUCTION

MURC 5501 (pH Boosters) is an alkaline liquid formulation designed to increase alkalinity of feed water of boiler. It is also used to reduce corrosion of feed water, tank, lines & pump.

MULTIPURPOSE EFFECT

MURC 5501 (pH Boosters) pH booster or alkalinity builder is a multipurpose Boiler Water Treatment Chemical that increases the alkalinity and pH of boiler water for corrosion inhibition and also aids in removal of sludge or boiler deposits and prevention of scaling in boiler tubes.

DOSAGE AND FEEDING

MURC 5501 (pH Boosters) should be dosed continuously in to feed water line. Exact dosages depend upon the water quality and operation parameters. Clean Chem will provide technical assistance to set up optimum dosages according to your operating conditions and available dosing system in your plant. However, general dosage is 20-25 ppm at normal conditions.

STORAGE & HANDLING

MURC 5501 (pH Boosters) should be stored in an air tight container away from direct heat. Always store at cool & Dry place.

Information in this publication, are given to the best of our knowledge, and may be amended without notice.



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AN ISO 9001:2015 CERTIFIED COMPANY

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