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ALKALINITY CONTROL

Application

Alkalinity Control is an inorganic and non-volatile alkali for use in both high and low-pressure boilers. It inhibits corrosion and assists in the conversion of hardened precipitates into soft and non-adherent sludge. Alkaline pH-Controller can also be used as a neutralizing agent after descaling with acidic chemicals.

Dosage is according to P-alkalinity of pH. As a rule of thumb, addition of 100 ml of Alkalinity Control per tonne of boiler water normally raises the P-alkalinity by 50 - 60 ppm of CaCO_3 . Due to the presence of other chemicals, large deviations from these values must be taken into consideration. Recommended practice is, therefore to base dosage on the daily logs.

The appropriate amount of Alkalinity Control is dissolved in approximately 5 litres of feed water, and fed into the return pipe or feed-water pipe. For high pressure boilers, the solution is fed into the steam drum, water drum or economizer inlet by means of a chemical pump. For low pressure boilers, it may be dosed into the hotwell or condensate return tank.

After 3 - 6 hours, control analysis is carried out.

Alkaline pH-Controller is an aqueous solution of sodium hydroxide NaOH, and is strongly alkaline. It may be corrosive to aluminum, zinc and tin. Miscible with water in all proportions but may evolve considerable heat when diluted with water. The product has a detrimental effect on natural oils and fats with pH of 14 in 4% solution.



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Directions for use

Carried out either by means of a pH-meter or titration with acid using phenolphthalein as indicator. The alkalinity is expressed as ppm of CaCO₃. General recommendations are 100 - 200 ppm of CaCO₃ for boilers operating up to 28 bars and 100 - 150 ppm CaCO₃ for boilers in the range of 28 - 60 bars.

Properties

Appearance : Viscous liquid

Boiling Point : 140°C (284°F)

Specific Gravity : 1.3 gm/cm

Freezing Point : 12°C (54°F)

For detailed information on safety and health, please refer to Material Safety Data Sheet and / or Product label

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