

7.0 Chemical Treatment

7.1 OVERVIEW

This section deals with specific chemical treatments. Type, purpose, and application are all discussed. The treatments are divided along the lines of preboiler and condensate systems, and the boiler itself. The preboiler system is usually treated with pH adjustment chemicals, amines, and oxygen control chemicals, called scavengers. The condensate system is treated with pH adjustment and corrosion control chemicals, volatile amines and filming amines. The boiler is treated with chemicals to control deposition of salts and corrosion products, buffering of pH, and dispersants.

The main objective in every case is to permit the safe and efficient operation of the boiler and steam handling system. Corrosion control aids in boiler cleanliness and prevention of equipment failures. Deposit control aids in the maintenance of good heat transfer, which translates into better efficiency and prevention of tube failures. In the condensate system, corrosion and deposit control are essential for recovery of condensate for re-use.

In discussing chemical treatment in boiler systems, the following terminology will be used:

- Pretreatment or external treatment: Chemical and physical treatment of makeup water to prepare a consistent, satisfactory quality boiler feedwater.
- Internal treatment: Chemical treatment of the boiler water to control mineral scaling, corrosion and general deposition in the boiler drums and boiler tubes.
- Condensate treatment: Chemical treatment of steam condensate, applied either in the steam lines or in the boiler, to control carbonic acid and dissolved oxygen corrosion in the condensate lines.

As a general rule, the higher the boiler pressure, the higher the quality of feedwater required. Therefore, the higher the pressure, the more chemical treatment is concentrated outside the boiler in water preparation (chapter 2), and the less internal boiler water treatment and condensate treatment is required.

Boilers are often classified by operating (throttle) pressure. These groupings are arbitrary, and there is much overlapping between groups, but for purposes of discussing chemical treatment the following groupings are convenient:

- Low pressure steaming boilers, operating below about 300 psig, that use untreated, or at best zeolite softened feedwater to make steam primarily for HVAC and humidification use. Feedwater may or may not be mechanically deaerated. These boilers require substantial internal treatment to maintain clean surfaces and prevent corrosion. Systems are simple, and precise control of chemical dosages and boiler operations is generally not required.

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AWT Technical Reference and Training Manual Association of Water Technologies, 2002-01-01 *The Science and Technology of Industrial Water Treatment* Zahid Amjad, 2010-04-05 Mineral scale deposits corrosion suspended matter and microbiological growth are factors that must be controlled in industrial water systems Research on understanding the mechanisms of these problems has attracted considerable attention in the past three decades as has progress concerning water treatment additives to ameliorate these concerns Physicochemical Treatment Processes Lawrence K. Wang, Yung-Tse Hung, Nazih K. Shammash, 2007-11-13 The past 30 years have seen the emergence of a growing desire worldwide to take positive actions to restore and protect the environment from the degrading effects of all forms of pollution air noise solid waste and water Because pollution is a direct or indirect consequence of waste the seemingly idealistic demand for zero discharge can be construed as an unrealistic demand for zero waste However as long as waste exists we can only attempt to abate the subsequent pollution by converting it to a less noxious form Three major questions usually arise when a particular type of pollution has been identified 1 How serious is the pollution 2 Is the technology to abate it available and 3 Do the costs of abatement justify the degree of abatement achieved The principal intention of the Handbook of Environmental Engineering series is to help readers formulate answers to the last two questions The traditional approach of applying tried and true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering and has accounted in large measure for the establishment of a methodology of pollution control However realization of the ever increasing complexity and interrelated nature of current environmental problems makes it imperative that intelligent planning of pollution abatement systems be undertaken **Handbook of Food Science, Technology, and Engineering** Yiu H. Hui, 2006 **Flotation Technology** Lawrence K. Wang, Nazih K. Shammash, William A. Selke, Donald B. Aulenbach, 2010-06-09 The past 30 years have seen the emergence of a growing desire worldwide that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution air water soil and noise Since pollution is a direct or indirect consequence of waste the seemingly idealistic demand for zero discharge can be construed as an unrealistic demand for zero waste However as long as waste continues to exist we can only attempt to abate the subsequent pollution by converting it to a less noxious form Three major questions usually arise when a particular type of pollution has been identified 1 How serious is the pollution 2 Is the technology to abate it available and 3 Do the costs of abatement justify the degree of abatement achieved This book is one of the volumes of the Handbook of Environmental Engineering series The principal intention of this series is to help readers formulate answers to the last two questions above The traditional approach of applying tried and true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering and has accounted in large measure for the establishment of a methodology of pollution control However the realization of the ever increasing complexity and interrelated nature of current environmental

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