

ASME BOILER WATER STANDARD

SUGGESTED WATER CHEMISTRY LIMITS INDUSTRIAL WATERUSE, HIGH DUTY, PRIMARY FUEL FIRED, DRUM TYPE				SUGGESTED WATER CHEMISTRY LIMITS INDUSTRIAL WATERUSE, HIGH DUTY, PRIMARY FUEL FIRED, DRUM TYPE				
Makeup water percentage: Up to 100% of feedwater				Makeup water percentage: Up to 100% of feedwater				
Conditions: Includes superheaters, turbine drives, or process extraction or steam purity. Estimated steam purity target: See tabulated values below.				Conditions: Includes superheaters, turbine drives, or process extraction or steam purity. Estimated steam purity target: See tabulated values below.				
Item Specified Pressure (PSIG)	up to 0-500 PSIG (0-3.5)	501-600 0.55-0.10	601-600 0.11-0.10	601-100 0.10-0.10	101-600 0.10-0.20	601-1000 0.20-0.00	1001-1000 0.00-0.00	1001-2000 0.00-0.10
Feedwater (F)								
Dissolved oxygen ppm (mg/l) - measured before deaerator								
Dissolved oxygen ppm (mg/l)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Total iron ppm (mg/l) Fe	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total copper ppm (mg/l) Cu	<0.05	<0.005	<0.05	<0.05	<0.015	<0.01	<0.01	<0.01
Total hardness ppm (mg/l) ^a	<0.5	<0.5	<0.5	<0.5	<0.1	<0.05	50	50
pH at 25°C	8.5-10.0	8.5-10.0	8.5-10.0	8.5-10.0	8.5-10.0	8.5-9.0	8.5-9.0	8.5-9.0
Chloride for polymer system protection	50	50	50	50	50	500	1000	1000
Sulfate ppm (mg/l) S	<1	<1	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2
Silica ppm (mg/l)	<1	<1	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2
Boiler Water								
Silica ppm (mg/l) SiO ₂	<100	<50	<40	<50	<50	<5	<1	<1
Total solids ppm (mg/l) ^b	<10000	<10000	<10000	<10000	<10000	<10000	5000	5000
Total TDS (totality) ppm (mg/l) ^c	50	50	50	50	50	50	5000	5000
Specific conductance (SC) µmhos/cm @25°C without ionization								
	5000-10000	5000-5000	5000-5000	1000-5000	1000-5000	1000-5000	<100	<50
Total Dissolved Solids in Steam (DS)								
DS (measured) ppm (mg/l)	1.0-0.0	1.0-0.0	1.0-0.0	0.0-0.1	0.0-0.1	0.0-0.1	0.1	0.1
^a See Table 1. ^b DS = Dissolved Solids ^c DS = Dissolved Solids TDS = Total Dissolved Solids (includes ionization of atmospheric water vapor)								

Note :

1. ASME gives recommendation for Feedwater and Boiler Water quality.
2. Higher pressure Boiler needs more/extra purity water.
3. Impurities in water cause many problem : corrosion, scale, steam carry over, ect.
4. Good quality of Boiler water means saving energy and more lifetime.
5. Bad quality of Boiler water means more problem and lost energy.
6. More Problem in Boiler means extra cost and less profit.
7. Extra cost and less profit impact in sustainability of bussiness.

This era, Chemical Engineer not only focusing on chemical or process system, but also energy saving, safety system, profit and sustainability of bussiness.

Asme Boiler Water Quality Guidelines

Mike Jess



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Practical Wastewater Treatment David L. Russell, 2019-04-30 The updated and expanded guide for handling industrial wastes and designing a wastewater treatment plant The revised and updated second edition of Practical Wastewater Treatment provides a hands on guide to industrial wastewater treatment theory practices and issues It offers information for the effective design of water and wastewater treatment facilities and contains material on how to handle the wide variety of industrial wastes The book is based on a course developed and taught by the author for the American Institute of Chemical Engineers The author reviews the most current industrial practices and goals describes how the water industry works and covers the most important aspects of the industry In addition the book explores a wide range of approaches for managing industrial wastes such as oil blood protein and more A comprehensive resource the text covers such basic issues as water pollution wastewater treatment techniques sampling and measurement and explores the key topic of biological modeling for designing wastewater treatment plants This important book Offers an updated and expanded text for dealing with real world wastewater problems Contains new chapters on Reverse Osmosis and desalination Skin and Membrane Filtration and Cooling tower water treatment Presents a guide filled with helpful examples and diagrams that is ideal for both professionals and students Includes information for handling industrial wastes and designing water and wastewater treatment plants Written for civil or chemical engineers and students Practical Wastewater Treatment offers the information and techniques needed to solve problems of wastewater treatment

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2009 several requests were made for a reference with even quicker access to information Boilers A Practical Reference is the result of those requests providing a user friendly encyclopedic format with more than 500 entries and nearly the same num

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