

TABLE 2 – Water Quality Guidelines Recommended for Reliable, Continuous Operation of Modern Industrial Watertube Boilers

BOILER FEEDWATER			
Drum Pressure psig	Iron, ppm Fe	Copper ppm Ca	Total hardness ppm Ca Co,
0 – 300	0.100	0.050	0.300
301 – 450	0.050	0.250	0.300
451 – 600	0.030	0.020	0.200
601 – 750	0.025	0.020	0.200
751 – 900	0.020	0.015	0.200
901 – 1000	0.020	0.015	0.100
1001 – 1500	0.010	0.010	ND ⁴
1501 – 2000	0.010	0.010	ND ⁴
BOILER WATER			
Drum Pressure psig	Silica, ppm S₁O₂	Total alkalinity¹ ppm CaCO₃	Specific conductance µmho/cm
0 – 300	150	700 ²	5400 - 100
301 – 450	90	600 ²	4600 - 900
451 – 600	40	500 ²	3800 - 800
601 – 750	30	400 ²	1500 - 300
751 – 900	20	300 ²	1200 - 200
901 – 100	8	200 ²	1000 - 200
1001 – 1500	2	NS ³	150
1501 – 2000	1	NS ³	100
¹ Minimum level of hydroxide alkalinity in boilers below 1000 psi must be individually specified with regard to silica solubility and other components of internal treatment. ² Maximum total alkalinity consistent with acceptable steam purity. If necessary, the limitation on total alkalinity should override conductance as the control parameter. If make-up is demineralized water at 600-1000 psig, boiler water alkalinity and conductance should be as shown in the table for the 1001-1500 psig range. ³ NS (Not specified) in these cases refers to free sodium- or potassium-hydroxide alkalinity. Some small variable amount of total alkalinity will be present and measurable with the assumed congruent control or volatile treatment employed at these high pressure ranges. ⁴ None detectable.			

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web nov 20 2019 one needs to have two of the following three criteria to make a formal diagnosis of acute respiratory failure po 2 less than 60 mm hg hypoxemia pco 2 greater than 50 mm hg hypercapnia with ph less than 7 35 signs and symptoms of acute respiratory distress one may think that it would be difficult to meet criteria without an abg

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