

AWT Guidelines for Boiler Water

Table 3-8*
Phosphate Treatment Guidelines

Parameter	Operating Pressure (psig)		
	0-300	300-600	600-1000
PO ₄ ⁻³ (mg/L)	30-60	30-60	20-40
P-Alkalinity (mg/L as CaCO ₃)	300-600	300-500	200-400
SiO ₂ (max. mg/L)	150	50	15
Neutralized Conductance	2,300-3,500	2,000-2,500	1,000-1,500

TABLE 3-9*
Polymer Addition Parameters in Phosphate Programs

Boiler Hardness, mg/L as CaCO ₃	Polymer Actives, mg/L
<10	10-20
10-30	20-40
30-60	40-60
CONDUCTIVITY < 2,200 μs/cm	ABOVE
2,200-5,000	1.5 X ABOVE
5,000-9,000	2.0 X ABOVE
9,000-15,000	3.0 x ABOVE
>15,000	4.0 X ABOVE

TABLE 3-11*
All-Polymer Treatment Guidelines

Parameter	Pressure (psig)		
	0-300	301-600	601-900
Polymer (mg/L)	15-30	30-60	60-90
P-Alkalinity (mg/L as CaCO ₃)	200-500	200-400	200-300
SiO ₂ (max. mg/L)	<200	<50	<15

* Technical Reference and Training Manual, 1st Edition, Association of Water Technologies
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