

RECOMMENDED CHEMICAL LIMITS FOR BOILERS

BOILERS	7-28 kg/cm ² and Low pressure Steam Generation	28-57 kg/cm ²	57-84 kg/cm ² Coordinated Phosphate - pH	Adjustement
HARDNESS, PPM	0	0	0	HARDNESS CONTROL OR BWT - ONE SHOT TO INCREASE OR BLOWDOWN TO REDUCE
PHOSPHATE, PPM	20 - 40	20 - 40	10 - 25	HARDNESS CONTROL OR BWT - ONE SHOT TO INCREASE OR BLOWDOWN TO REDUCE
« P » ALKALINITY, PPM	100 - 150	90 - 130	10 - 25	ALKALINITY CONTROL OR BWT - ONE SHOT TO INCREASE OR BLOWDOWN TO REDUCE
« M » ALKALINITY, PPM	LESS THAN TWICE "P"	LESS THAN TWICE "P"	-	ALKALINITY CONTROL OR BWT - ONE SHOT TO INCREASE OR BLOWDOWN TO REDUCE
CHLORIDES, PPM	MAX 100	MAX 36	MAX 16	BLOWDOWN
SULPHITE, PPM	20 - 30	10 - 15	-	OXYGEN CONTROL TO INCREASE
★ CONDUCTIVITY TDS - PPM	µ mhos - 700 MAX PPM - 500 MAX	µ mhos - 700 MAX PPM - 500 MAX	µ mhos - 120 MAX PPM - 90 MAX	BLOWDOWN TO REDUCE
pH	10,5 - 11	10 - 11	9,8 - 10,2	ALKALINITY CONTROL TO INCREASE
CONDENSATE				
pH	8,3 - 9	8,3 - 9	8,3 - 9	CONDENSATE CONTROL TO INCREASE
DEHA, PPM	0,10 - 0,35	0,10 - 0,35	0,10 - 0,35	OXYGEN CONTROL PLUS TO INCREASE
CHLORIDES, PPM	10 MAX	5 MAX	2 MAX	STOP CONTAMINATION
« P » ALKALINITY	-	-	MAX 10	CONDENSATE CONTROL TO INCREASE

★ CONDUCTIVITY MEASURE (optional)

The units **MicroMhos** are a mesure of inverse resistance, **1/MicroOhms**, for which the scientific community assigned the name **MicroSiemens** therefore **MicroMhos** is same measure of **MicroSiemens**. The two names may be used interchangeably. As the **Conductivity** is a measure of **Total Dissolved Solid (TDS)** there is a relationship which will vary depending on the particular dissolved solid (salt, or iron). Generally accepted that the **TDS** in part per million (**PPM**) is **70%** of the **Conductivity in MicroMhos or MicroSiemens**. **EXAMPLE:** 1000 MicroMhos or MicroSiemens is corresponding about to 700 PPM of TDS.

INITIAL DOSE PER TON OF DISTILLED WATER

CHEMICAL	Up to 28 Kg/cm ²	From 28 to 57 Kg/cm ²	Over 57 Kg/cm ²
HARDNESS TREATMENT	100 mls	50 grams	10 grams
ALKALINITY TREATMENT	250 mls	200 mls	20 mls
CONDENSATE TREATMENT	250 mls	DAILY - TEST pH and ADJUST DOSAGE	
OXYGEN CONTROL PLUS	400 mls	WEEKLY - TEST DEHA and ADJUST DOSAGE	
OXYGEN CONTROL	80 mls	80 mls	-
BWT ONE SHOT	1000 mls	-	-