

Rite in the Rain®

DEFYING MOTHER NATURE™

COMMERCIAL POOL WATER CHEMISTRY GUIDELINES

NOTE: These chemical parameters are for reference only and do not supercede local or state codes and regulations. For state Commercial Pool guidelines call your local Health Department.

PARAMETER	ABBR.	MIN	IDEAL	MAX
Free Chlorine (ppm or mg/L)	FAC	1.0	2.0 - 4.0	5.0
Total Chlorine (ppm or mg/L)	TC	1.0	2.0 - 4.0	5.2
Combined Chlorine* (ppm or mg/L)	CC	0	0	.2
Total Bromine (ppm or mg/L)	TB	2.0	4.0 - 6.0	10.0
PHMB (ppm or mg/L)	PHMB	30	30 - 50	50
pH	pH	7.2	7.4 - 7.6	7.8
Total Alkalinity (ppm or mg/L)	TA	60	80 - 120	180
Calcium Hardness (ppm or mg/L)	CH	150	200 - 400	1,000
Cyanuric Acid (ppm or mg/L)	CYA	0	30-50	CHECK LOCAL CODES

Additional Readings to Consider: • SALT • BACTERIA • SATURATION INDEX • OZONE • TDS • TURNOVER • CYANURIC ACID (CYA)

*Combined Chlorine (CC) results found by subtracting Free Chlorine (FAC) from Total Chlorine (TC).

COMMERCIAL SPA WATER CHEMISTRY GUIDELINES

NOTE: These chemical parameters are for reference only and do not supercede local or state codes and regulations. For state Commercial Spa guidelines call your local Health Department.

PARAMETER	ABBR.	MIN	IDEAL	MAX
Free Chlorine (ppm or mg/L)	FAC	2.0	3.0 - 5.0	10.0
Total Chlorine (ppm or mg/L)	TC	2.0	3.0 - 5.0	10.5
Combined Chlorine* (ppm or mg/L)	CC	0	0	.5
Total Bromine (ppm or mg/L)	TB	2.0	4.0 - 6.0	10.0
PHMB (ppm or mg/L)	PHMB	30	30 - 50	50
pH	pH	7.2	7.4 - 7.6	7.8
Total Alkalinity (ppm or mg/L)	TA	60	80 - 120	180
Calcium Hardness (ppm or mg/L)	CH	100	150 - 250	800
Cyanuric Acid (ppm or mg/L)	CYA	0	30-50	CHECK LOCAL CODES

Additional Readings to Consider: • SALT • BACTERIA • SATURATION INDEX • OZONE • TDS • TURNOVER • CYANURIC ACID (CYA)

*Combined Chlorine (CC) results found by subtracting Free Chlorine (FAC) from Total Chlorine (TC).

CHEMICAL	DOSAGES TO TREAT: 10,000 GALLONS			DOSAGES TO TREAT: 40,000 LITERS			
	DESIRED CHANGE	1 ppm	5 ppm	10 ppm	1 mg/L	5 mg/L	10 mg/L
Increase Chlorine							
Chlorine Gas		1.3 oz	6.7 oz	13 oz	40 g	200 g	390 g
Calcium Hypochlorite (67%)*		2 oz	10 oz	1.3 lb	63 g	315 g	630 g
Sodium Hypochlorite (12%)		10.7 fl.oz.	1.7 qts	3.3 qts	330 mL	1.36 L	3.3 L
Lithium Hypochlorite		3.8 oz	1.2 lbs	2.4 lbs	110 g	570 g	1.1 kg
Dichlor (62%)		2.1 oz	10.75 oz	1.3 lbs	65 g	320 g	650 g
Dichlor (56%)		2.4 oz	12 oz	1.4 lbs	72 g	360 g	720 g
Trichlor		1.5 oz	7.5 oz	14 oz	44 g	220 g	440 g
Increase Total Alkalinity		10 ppm	30 ppm	50 ppm	10 mg/L	30 mg/L	50 mg/L
Sodium Carbonate		14 oz	4.2 lbs	7.0 lbs	670 g	2.0 kg	3.4 kg
Sodium Bicarbonate		1.4 lbs	2.6 lbs	4.4 lbs	400 g	1.2 kg	2.0 kg
Sodium Sesquicarbonate		1.25 lbs	3.75 lbs	6.25 lbs	600 g	1.8 kg	3.0 kg
Decrease Total Alkalinity		10 ppm	30 ppm	50 ppm	10 mg/L	30 mg/L	50 mg/L
Muriatic Acid (31.4%)		26 fl.oz.	2.4 qts	1 gal	800 ml	2.4 L	4.0 L
Sodium Bisulfate		2.1 lbs	6.4 lbs	10.5 lbs	1.03 kg	3.1 kg	5.15 kg
Increase Calcium Hardness		10 ppm	30 ppm	50 ppm	10 mg/L	30 mg/L	50 mg/L
Calcium Chloride (100%)		0.9 lbs	2.8 lbs	4.6 lbs	402 g	1.2 kg	2.0 kg
Calcium Chloride (77%)		1.2 lbs	3.6 lbs	6.0 lbs	575 g	1.7 kg	2.9 kg
Increase Stabilizer		10 ppm	30 ppm	50 ppm	10 mg/L	30 mg/L	50 mg/L
Cyanuric Acid		13 oz	2.5 lbs	4.1 lbs	400 g	1.2 kg	2 kg
Neutralize Chlorine		1 ppm	5 ppm	10 ppm	1 mg/L	5 mg/L	10 mg/L
Sodium Thiosulfate		2.6 oz	13 oz	26 oz	79 g	395 g	790 g
Sodium Sulfite		2.4 oz	12 oz	1.5 lbs	71 g	356 g	711 g

Chemical amounts have been rounded off for convenience. Always follow the instructions on the manufacturer's label for exact dosage amounts.

*Other calcium hypochlorite products are available from 47% to 78%.



ALL-WEATHER
COMMERCIAL POOL & SPA LOG
No 425-MX

____ / ____ / ____ - ____ / ____ / ____
(BEGINNING DATE) (ENDING DATE)

Facility: _____ Pool/Spa: _____
Facility Contact: _____ Phone: _____
Address: _____

POOL MAINTENANCE INFORMATION

Sanitizer Type: _____
Other Chemicals: _____
MSDS Forms Location: _____

Pool Operator: _____ CPO License #: _____

Phone 1: _____ Phone 2: _____ Fax: _____

Service Company: _____

Address: _____

Email: _____ Website: _____

Health Dept. Inspector: _____ Phone: _____

Fire Dept: _____ Police Dept: _____

Additional Contacts:

1. _____ Phone 1: _____ Phone 2: _____

2. _____ Phone 1: _____ Phone 2: _____



DAY: _____

TIME	All values for chemical readings are expressed in Parts Per Million (PPM)						Initials
	FAC	TC	CC	TB	ORP	pH	
5:00 AM							/
7:00 AM							/
9:00 AM							/
11:00 AM							/
1:00 PM							/
3:00 PM							/
5:00 PM							/
7:00 PM							/
9:00 PM							/
11:00 PM							/

DAY: DATE:

