HEST DESCRIPTION & RECOMMENDED RANGES

CHLORINE & BROMINE

99% of the bacteria present in the water. They're also effective oxidizers that burn up organic waste such as Chlorine and bromine sanitize pool water by killing over urine, perspiration and dead bacteria.

A weekly shock treatment is required to eliminate weak, ineffective chloramines that are formed during this

RECOMMENDED RANGE:

WHEN TO TEST. Chlorine: 1.0 to 3.0 ppm / Bromine: 2.0 to 4.0 ppm

POTENTIAL PROBLEMS: Twice daily (or as bather load demands)

- Too low inadequate sanitation / bacteria & algae growth
- Too high uneconomical use of sanitize

and skin and eye irritation. A high pH can cause scale slightly basic (7.2 – 7.6). A low pH can cause corrosior and maximizes the effectiveness of your chemicals. Maintaining a proper pH helps ensure bather comfort formation and reduce the effectiveness of chlorine. of pool water. 7 is neutral and pool water should be PH is a measurement of the relative acidity or basicity

RECOMMENDED RANGE:

WHEN TO TEST: pH: 7.2 to 7.6

 Too low – corrodes surfaces / irritates eyes and skin POTENTIAL PROBLEMS:

Too high - scale deposits / cloudy water / poor sanitizer efficiency

TOTAL ALKALINITY

alkalinity is the best way to save on corrective condition known as "pH bounce" which can cause agents, neutralizing acids and bases to help prevent a chemicals corrosion and scale formation. Maintaining proper materials in your pool water. These act as buffering Total alkalinity is a measurement of all the alkaline

RECOMMENDED RANGE:

WHEN TO TEST: Weekly otal alkalinity: 80 to 120 ppm

POTENTIAL PROBLEMS:

- Too low pH difficult to maintain / corrosion tendency
- Too high ph difficult to adjust / potential for scaling

POOL & SPA WATER TEST PROCEDURE

CHLORINE / BROMINE TEST

- 1 Rinse and fill chlorine /bromine cell to mark with water to be tested
- 2 Add 5 drops OTO-50. Cap and invert to mix.
- 3 Match color with color standard. Record as parts adjustment. per million (ppm) total chlorine or total bromine. For Bromine: See manufacturer's instructions for Chlorine: See dosage chart for adjustment. For

they react with free chlorine to produce combinedchlorine or chloramines. When contaminants are introduced into pool water,

usually has a foul smell, and is an eye irritant. Combined chlorine is less effective than free chlorine A shock treatment or superchlorination can increase

pH TEST

- 1 Rinse and fill pH cell to mark with water to be
- 2 Add 5 drops pH-Red. Cap and invert to mix.
- 3 Match color with color standard, Record as pH units and save sample if pH needs adjustment. If sample color is between two values, pH is average of the two To LOWER pH: See acid demand test To RAISE pH: See dosage chart

TOTAL ALKALINITY TEST

- 1 Rinse and fill sample tube to 25mL mark with water to be tested.
- 2 Add 2 drops ALK-10, Swirl to mix
- 3 Add 5 drops ALK-20. Swirl to mix. Sample should turn green
- 4 Add ALK-30 dropwise. After each drop, count and swirl to mix until color changes from green to red
- 5 Multiply drops in step 4 by 10. Record as parts per million (ppm) total alkalinity as calcium carbonate. See dosage chart for adjustment.

ACID DEWAND TEST

- Use treated sample from pH test.
- 2 Add AD-40 dropwise. After each drop, count, mix, and compare with color standards until desired pH is matched. See dosage chart to continue

TEST DESCRIPTION & RECOMMENDED RANGES

PH DOSAGE CHART

REMEMBER!

- 1 Keep test kit out of reach of children
- 2 Read precautions on all labels.
- Store test kit in a cool, dark place.
- 5 Do not dispose of solutions in pool or spa 6 Rinse cells before and after each test 4. Replace solutions once each year.
- Obtain samples 45cm/18" below water surface
- CHI ORINE DOSAGE CUVOT

pH TO 7.5

oz oz oz oz bs

lbs kg bs kg

DA ASH

ODA ASH IONATE 100%) Volume FROM 6.5 of Water (liter) 12 oz **36** g 1000 **2.0** oz **56** g 1500 4 9 oz 184 g 15 lbs 719 g 5,000 20,000 3.1 lbs 1.49 kg 40,000 4.6 lbs 2.21 kg 60,000 6.2 bs 2.79 kg LKALINITY

ALKALINITY DOSAGE CHART

Volume of Water
(liter)
1000
1500
5,000
20,000
40,000
60,000
75,000