

# A Simple Solution for Precise Borate Readings



Our Borate Test Strips are a **simple solution** to testing for borates from 0–100 parts per million.

Our Borate Test Strips have many benefits:

- **fast, reliable results** in seconds
- **simple instructions** with pictograms
- **superior color standards** for color matching
- 24-month shelf life

Our indicator **bonds directly with borates in the sample, while other test strips in the market measure the pH shift caused by borates.** With this method **our strips are less affected by pH and alkalinity** and, as a result, are **less prone to interferences.**

## BORATE CORRECTION TO TOTAL ALKALINITY

Borates will produce a “false-high” total alkalinity reading which will need to be accounted for. Borates’ effect on total alkalinity will need to be considered when calculating water’s saturation index. **Follow the formula below to find the true carbonate alkalinity value** (this adjustment is pH-dependent).

Total Alkalinity results can be corrected for the presence of borate by the following procedure.

1. Select a borate factor ( $B_f$ ) based on measured pH:

2. Calculate the carbonate alkalinity ( $Alk_C$ ) from the measured total alkalinity ( $Alk_{TA}$ ), measured borate (B), and selected borate factor ( $B_f$ ):

$$Alk_C = Alk_{TA} - (B \times B_f)$$

For example:

$$pH = 7.6; Alk_{TA} = 100 \text{ ppm}; B = 50 \text{ ppm}$$

$$Alk_C = Alk_{TA} - (B \times B_f)$$

$$Alk_C = 100 - (50 \times 0.17)$$

$$Alk_C = 92 \text{ ppm}$$

pH	$B_f$
6.5	0.05
7.0	0.08
7.2	0.10
7.4	0.13
7.6	0.17
7.8	0.24
8.0	0.34
8.5	0.83

A Fluidra Brand | TaylorTechnologies.com | 1.800.837.8548

©2022 Taylor Water Technologies LLC. All rights reserved. Taylor® is a registered trademark of Taylor Water Technologies LLC, used under license. All other trademarks are the property of their respective owners.

LIT-PS17

## TEST STRIPS ARE ALSO AVAILABLE IN CASE PACKS:

### Chlorine (S-1401-12)

Tests for free chlorine, pH, total alkalinity, and cyanuric acid.

### Bromine (S-1402-12)

Tests for bromine, pH, total alkalinity, and total hardness.

### 7-Way (S-1403-12)

Tests for free chlorine, total chlorine/bromine, pH, total alkalinity, total hardness, and cyanuric acid.

### Service Pro (S-1451-6)

Tests for free chlorine, total chlorine/bromine, pH, and total alkalinity.

### Pro 7 (S-1452-6)

Tests for free chlorine, total chlorine/bromine, pH, total alkalinity, total hardness, and cyanuric acid.

### Salt (S-1341-12)

Tests for sodium chloride.

### Borate (S-1405-12)

Tests for borate.

## USER BENEFITS

- **Consistent chemistry** from strip to strip and batch to batch.
- Shaker bottle **prevents spoilage** from moisture and air.
- **Label includes target ranges** generally accepted in the pool/spa industry.
- Retail packaging display cartons available.



091323