CHLORIDE TEST KIT
DROP COUNT METHOD
MODEL PSC-DC • CODE 4503

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>CONTENTS</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 mL</td>
<td>*Chloride Reagent #1</td>
<td>*4504-E</td>
</tr>
<tr>
<td>60 mL</td>
<td>*Chloride Reagent #2</td>
<td>*4505PS-H</td>
</tr>
<tr>
<td>15 mL</td>
<td>*Phenolphthalein Indicator, 1%</td>
<td>*2246-E</td>
</tr>
<tr>
<td>15 mL</td>
<td>*Sulfuric Acid, 0.5 N</td>
<td>*6090-E</td>
</tr>
<tr>
<td>1</td>
<td>Test Tube, Chloride, w/cap</td>
<td>4506</td>
</tr>
<tr>
<td>1</td>
<td>Pipet, dropping, plastic</td>
<td>0352</td>
</tr>
<tr>
<td>1</td>
<td>Pipet, glass, 20 drops/mL</td>
<td>0342</td>
</tr>
</tbody>
</table>

*WARNING: Reagents marked with a * are considered hazardous substances. Material Safety Data Sheets (MSDS) are supplied for these reagents. For your safety read label and accompanying MSDS before using.

To order individual reagents or test kit components, use the specified code number.

PROCEDURE

LOW RANGE (15 ppm PER DROP)

1. Fill tube to appropriate line with sample water.
   To receive results as ppm, use 15 ppm line.
   To receive results as gpg, use 1 gpg line.
2. Add one drop of *Phenolphthalein Indicator, 1% (2246). If the solution remains colorless, proceed to Step 3. If solution turns pink, add *Sulfuric Acid (6090) one drop at a time, mixing after each drop, until the pink color disappears.
3. Add three drops of *Chloride Reagent 1 (4504). Solution will turn yellow.
4. Fill glass pipet (0342) with *Chloride Reagent #2 (4505PS). Hold pipet vertically. While gently swirling the test tube, add *Chloride Reagent #2, one drop at a time, until color changes permanently from yellow to orange-brown. Count the number of drops added.
5. Multiply the number of drops used in Step 4 to calculate result.
   For a 15 ppm sample, multiply by 15. Record as ppm Chloride.
   For a 1 gpg sample, multiply by 0.06. Record as % Chloride.

HIGH RANGE (600 ppm PER DROP)

1. Use the plastic pipet (0352) to add five drops of sample water to the test tube (4506). Fill to line with distilled or chloride-free water.
   To receive results as ppm, use 15 ppm line.
   To receive results as gpg, use 1 gpg line.
2. Add one drop of *Phenolphthalein Indicator, 1% (2246). If the solution remains colorless, proceed to Step 3. If solution turns pink, add *Sulfuric Acid (6090) one drop at a time, mixing after each drop, until the pink color disappears.
3. Add three drops of *Chloride Reagent #1 (4504). Solution will turn yellow.
4. Fill glass pipet (0342) with *Chloride Reagent #2 (4505PS). Hold pipet vertically. While gently swirling the test tube, add *Chloride Reagent #2, one drop at a time, until color changes permanently from yellow to orange-brown. Count the number of drops added.
5. Multiply number of drops used in Step 4 to calculate result.
   For a 15 ppm sample, multiply by 600. Record as ppm Chloride.
   For a 1 gpg sample, multiply by 35. Record as gpg Chloride.

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10/02
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5. Multiply the number of drops used in Step 4 to calculate result.
   For a 15 ppm sample, multiply by 15. Record as ppm Chloride.
   For a 1 gpg sample, multiply by 0.9. Record as gpg Chloride.

HIGH RANGE (600 ppm PER DROP)

1. Use the plastic pipet (0352) to add five drops of sample water to the test tube (4506). Fill to line with distilled or chloride-free water.
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