580 Copper Pipe Corrosion and Acidic Water

Sciencefaircenter.com Study Kit

Each water sample is tested for this Set of parameters:

Copper (+1,+2) and pH
(2 tests per Set)

Log onto
www.sciencefaircenter.com/documentation.tpl
for additional information on this study kit.

Find more water information at **www.sciencefairwater.com** (a web work in progress).

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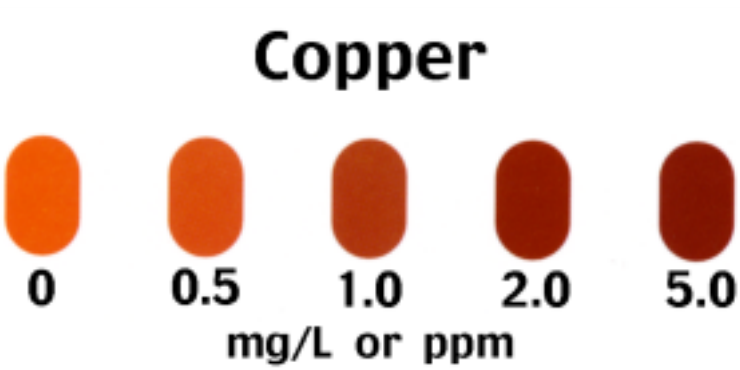

#165 Copper +1 and +2 in Water

Colorimetric test strips. (1 test per strip)

Copper in drinking water is primarily from its use in plumbing materials. These Copper test strips are suitable for testing drinking water and other water based samples for soluble copper ion. The EPA Primary Drinking Water Standard for Copper is 1 mg/L or 1 ppm.

This test strip features a patented design for accuracy and lack of interferences. Use a water sample of at least 60 ml or 2 oz.

The Color Comparator Chart for this test reports concentrations of Copper (Cu+1 Cu+2) at the following levels:
0, 0.5, 1.0, 2.0, 5.0 mg/L or ppm.

Results are obtained from this test in about 3 minutes.

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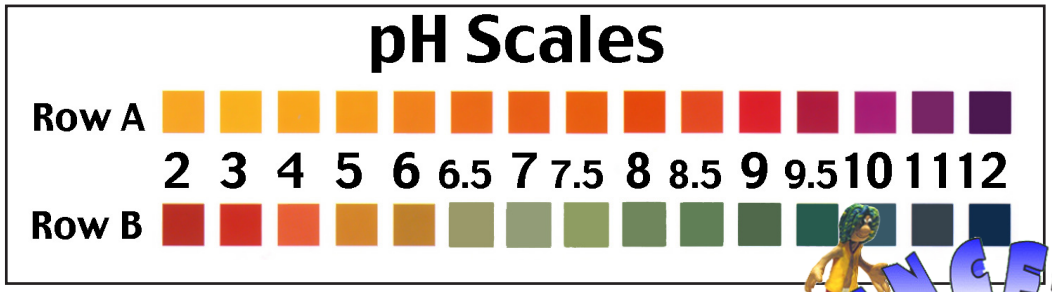

110 pH Testing of Water

Colorimetric test strips. (1 test per strip)

This pH test is very versitile in that it can be used for Drinking Water testing, food processing, environmental applications or in any other water matrix.

pH is short for “Power of Hydrogen”. The balance of positively charged and negatively charged hydrogen ions in drinking water determines pH.

Water that has a low pH is acidic or aggressive and can corrode plumbing resulting in metal ions being present in drinking water and damages fixtures and pipes.

Water that has a high pH is basic and will leave scale in pipes and fixtures.

This test features two test pads both measuring at the same range using different color indicators. This makes color matching easier on the Color Comparator Chart than with other colorimetric tests.

The test reports water pH at the following levels:
2.0, 3.0, 4.0, 5.0, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10, 11, and 12
Results are obtained from this test in 1 minute.

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Note:

These pH test strips perform optimally in water with a Total Alkalinity above 80 mg/L or ppm. Water highly saturated with dissolved solids or highly buffered samples will give elevated results for pH.

Note:

National Secondary Drinking Water Regulations set forth by EPA recommend a pH level 6.5 - 8.5 .

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