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## Product Technical Fact Sheet

Part Number: PQT02V50

Description: Quaternary Ammonium (QAC, Multi Quat) Test Strips, 0-400 ppm [Vial of 50 Plastic Strips]

Application: This 0-400 ppm QAC test strip is used for testing disinfection/sanitizing solutions of quaternary ammonium mixtures in water. The test strip and color chart have been calibrated for use with Oasis 146 (Ecolab). Oasis 146 concentrate consists of the following active ingredients.

Alkyl dimethyl benzyl ammonium chloride 3.00%  
Octyl decyl dimethyl ammonium chloride 2.25%  
Dioctyl dimethyl ammonium chloride 0.90%  
Didecyl dimethyl ammonium chloride 1.35%

The test strip can be used with other similar Quat formulas; however, the specific application should be verified before use.

Test Range: 0-400 ppm

Test Increments: Color chart calibrated at 0, 100, 200, and 400 ppm using Oasis 146

Accuracy: +/- ½ color chart unit

Detection Limit: 25 ppm

Storage Recommendations: Store in original packaging in a cool (20-30C), dry, place out of direct sunlight.

Shelf-Life: Two years from date of manufacture when stored properly in original packaging.

Interferences:

Formula additives can adversely influence the results. Use with formulations other than Oasis 146 should be verified first.

Temperature can adversely affect the results. Temperatures of 90-110F can cause strips to read up to ½ unit high. Temperatures above 110F can shift the results 1 unit high. Testing at room temperature is recommended. Hard water (above 500 ppm) can cause the strips to read high, up to 1 unit.

Instructions for Use:

1. Dip the test strip into the solution to be tested for 1-2 seconds.
2. Compare the test strip to the color chart within 10 seconds.

Chemistry Behind the Test:

These strips utilize an effect commonly referred to as the “protein-error of indicators” to quantify the QAC ppm levels. The technique utilizes pH indicators and buffering systems to create an environment where the test paper or strip reacts (develops color) proportional to the amount of analyte (QAC) present.