

DESIGN WATER TECHNOLOGIES



Product Specification Sheet

Product Description

ChloralPal enhances the biocidal capability of chlorine by up to 200%. Controlling pH between 5.5-6.0 maintains the biocidal effectiveness of granular (calcium hypochlorite) or liquid (sodium hypochlorite) chlorine in single disinfection applications of water wells and systems.

Market Advantages

There are many factors involved with obtaining zero coliform bacteria in wells and pipelines that include, 1. natural pH of water. 2. debris in new or old wells and systems that can hide coliform bacteria. Development (removal of drilling damage) in new wells can be critical. Removal of mineral scale or slime can be critical in older wells or systems. 3. placement of chlorine in a well. 4. sample taking in the field. 5. lab procedures contaminating samples.

Natural pH of groundwater and placement of chlorine are the largest factors in positive counts in new wells. The biocidal capability of chlorine is based upon pH. Liquid chlorine (sodium hypochlorite) and granular/pelleted chlorine (calcium hypochlorite) are both alkaline. When mixed into water as a single product, pH rises into the 9.5-11 range which produces a hypochlorous ion. This produces chlorine gas (smell), corrosion of metal surfaces (discoloration), and oxidation of minerals already in solution in water (discoloration). The greater the amount of chlorine used, the greater the rise of pH and the lower the effectiveness.

ChloralPal controls pH between the desired pH of 5.5 to 6.0 where biocidal effectiveness is 100%. Lower doses of chlorine can then be used with better results.

Product Usage

In low, very specific dosages (dependent upon the natural pH of water), ChloralPal is mixed into water followed by a specific dosage of chlorine. This controlled pH blend (two times the borehole volume) is then mixed and pumped into a well or system. This fluid is highly biocidal in low concentrations (50 to 200 ppm chlorine) which has been proven to have better biocidal capabilities with no release of chlorine gas, corrosion of metal surfaces, or oxidation of minerals already in solution.

Safety Information

See MSDS sheet.