

NuWell® 410

CHLORINE ENHANCER



Description

- Use with hypochlorite to increase effectiveness of chlorination
- Maintains pH in well at 6.5 during chlorination, increasing hypochlorous acid
- Increases bacteriological activity by over 100 times that of hypochlorite
- Contains a penetrant to allow deeper and more complete disinfection
- Controls calcium in hard water to increase the effectiveness of calcium hypochlorite
- NSF certified for potable water well use

Application

Laboratory testing and field trials demonstrate that successful well chlorination is achieved with a chlorine concentration of 200 ppm. The following procedures are recommended for using **NuWell 410 Chlorine Enhancer** with chlorine concentrations of 200 ppm.

1. From p.17, determine the static volume, the amount of **NuWell 410 Chlorine Enhancer** and the amount of chlorine product necessary to treat the well. (Consideration should be given to increasing this volume by 2-4 times to allow sufficient disinfectant solution to reach all areas of the well and borehole that can harbor coliform bacteria or other contaminating organisms.)
2. In a tank on the surface, add the amount of **NuWell 410 Chlorine Enhancer** to water as estimated from dosage guide. Mix the solution and measure the pH. The pH of the solution should be between 4.5 and 5 before adding the hypochlorite. All mixing should be done in a well ventilated area.
Caution: When chlorine is placed in an acid pH of 5.0 or lower chlorine gas can be released. When the hypochlorite solution or powder is added, the pH will rise immediately preventing any further chlorine release, but you should add the hypochlorite quickly and move away until the pH rises.
3. Place the chlorine solution in the well evenly washing down the upper levels of the well before you place the solution throughout the water column. The mixture should be agitated or surged to ensure good coverage. Let the solution stand in the well for a period of 5 to 12 hours. Additional agitation prior to removal is beneficial. **NuWell 410 Chlorine Enhancer** is buffered to hold the pH at the optimum level, however if additional **NuWell 410 Chlorine Enhancer** is required, blend in a volume equal to 25% of the original mixed volume and add carefully so that the pH does not drop below 5.0 resulting in release of chlorine gas.
4. Pump the solution to the surface, neutralize using **NuWell 500 ChlorOut** and discharge in accordance with local rules and regulations.

Physical Properties, Shipping & Handling

Appearance	clear, light amber liquid
Density	9.3 lbs/gal
Volatility	non-volatile
pH (as shipped)	3.08
Solubility	100%

- This product is not considered dangerous and does not require special handling or disposal. Avoid contact with strong acids or alkaline-based products
- Not regulated as a hazardous material under 49CFR 172.101, RECRA, SARA and CERCLA
- Can be shipped by UPS ground
- Additional physical and handling data are available on the product MSDS
- **NuWell 410 Chlorine Enhancer** is available in 1, 5, 30 and 55 gallon containers

