

Aqua Clean is a safe yet functional replacement for traditional hydrochloric acid treatments and other commonly used water well treat-ments. It is non-regulated by US DOT, Canadian TDG and carries a triple zero hazardous materials information system score. Aqua Clean biodegrades in less than 10 days.

Use Aqua Clean to:

- * Remove biofilm produced by slime forming bacteria, such as that produced by iron oxidizing and sulfate-reducing bacteria.
- * Act as an excellent chelating agent (tie up) on iron sulfates and iron chlorides.
- * Keep dissolved solids in suspension more efficiently than other mineral acids thus improving well rinse-out.
- * Descale shop equipment corroded with iron scale.

DIRECTIONS FOR USE:

Use 10 to 20 gallons of Aqua Clean per 100 gallons of water inside casing. (See table for calculation)

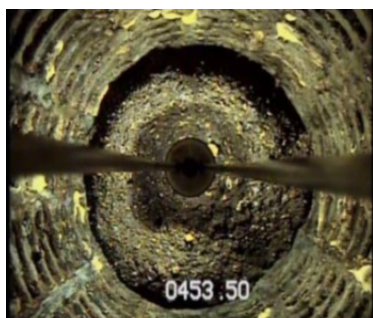
For best results Aqua Clean should remain in the well for 24-36 hours.

APPLICATIONS:

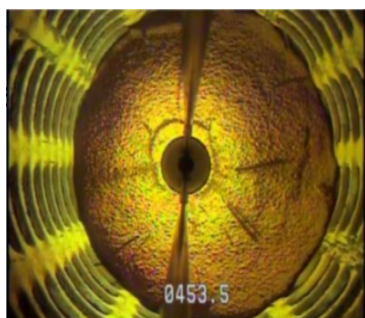
Aqua Clean can be utilized in any situation where the removal of scale or mineral deposits is required and can be safely used in place of conventional mineral acids.

- 10 gallons of Aqua Clean per 100 gallons of water for maintenance
- 20 gallons of Aqua Clean per 100 gallons of water for rehab
- Check the water pH. Brush the well. Introduce Aqua Clean by either pouring in the top or tremie Aqua Clean down to about 8' above the screen. Let Aqua Clean sit in the well for 24 hours. After 24 hours you can surge the well, add additional fresh water to push Aqua Clean into the formation or pump off. Pump off until the pH is close to where it was prior to introducing Aqua Clean into the well.
- Monitor the pH during the acid treatment. When acidizing a water well it is best to check the pH frequently. When pH levels are greater than 3.0 the acid is losing strength and productivity.

Diameter of Casing or Hole in Inches	Gallons of Water per Foot of Depth
3.0	0.37
3.5	0.50
4.0	0.65
4.5	0.83
5.0	1.02
5.5	1.23
6.0	1.47
7.0	2.00
8.0	2.61
9.0	3.31
10.0	4.08
11.0	4.94
12.0	5.88
13.0	6.90
14.0	8.00
15.0	9.18
16.0	10.00
17.0	11.79
18.0	13.22
19.0	14.73
20.0	16.32
22.0	19.75
24.0	23.50
26.0	27.58
28.0	31.99
30.0	36.72
32.0	41.78



PRE-TREATMENT



POST-TREATMENT



PRE-TREATMENT



POST-TREATMENT

TYPICAL DISSOLVING PROPERTIES

ACID TYPE	% CaCO ₃
Aqua Clean 100% Solution	100.00%
Aqua Clean 50% - 1050 Blend	96.76%
Aqua Clean - 1030 Blend	54.00%
7 ½ HCl	46.48%
15% HCl	87.39%
Each test above was conducted with 1 cubic inch of material placed in 50 ml of solution and allowed to soak for 8 hours at 100°F.	

STORAGE AND HANDLING:

Aqua Clean has a storage life of better than one year. Keep container closed when not in use. As with all chemical products and materials, take care as to where you store them. Safety glasses are suggested for use when handling this product. No special gloves or protective equipment are required when handling this product. When pumping this product, it is strongly recommended to use manufacturer approved hose couplings or fittings. DO NOT USE ALUMINUM FITTINGS. 316 Stainless Steel, polypropylene, polyethylene are recommended. AVOID CONTACT AND EXPOSURE TO SOFT METALS INCLUDING BUT NOT LIMITED TO GALVANIZED MATERIALS, ALUMINUM, MAGNESIUM, COPPER & ZINC.

Recommendations given in this data sheet are based on tests believed to be reliable. However, the use of the information is beyond the control of Eco Safe Clean Solutions and no guarantee, expressed or implied is made to the results obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage from the misuse of the product as such, or in combination with other materials. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.