

LIQUID DESCALER

Use LIQUID DESCALER 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.
- dissolve carbonate, sulfate, magnesium and iron deposits (mineral deposits).
- keep dissolved solids in suspension more efficiently than other mineral acids improving well rinse-out.
- descale shop equipment corroded with iron scale.

How to use LIQUID DESCALER:

Descale equipment in water wells by using 5 to 10 gallons per 100 gallons of water inside casing. (See table on next page for calculation)

LIQUID DESCALER should remain in the well for 24-36 hours and should be agitated every few hours. If a rig is over the hole agitate with a bailer, surge block or other tool. Dry ice can be used to agitate the chemical if rig or pump are not available.

Pump or bail the hole clean, develop and test. Initial water after treatment contains spent chemicals and should be pumped to waste.

For best results:

- Brush the well with the COTEY WELL CLEANING BRUSH prior to chemical treatment. Brushing the well can remove interior screen deposits ensuring more uniform chemical access into the formation.
- Agitate the well with a tight-fitting surge block or other isolation tool (the Cotey WELL CLEANING BRUSH, for example). This dislodges material softened by the chemical treatment and pushes the chemical solution further into areas it may otherwise not be able to reach.

(note: The combination of both chemical and mechanical energy is important for penetrating and removing the plugging material)

- Monitor the pH during acid treatment. When acidizing a water well it is best to check the pH frequently. With pH levels above 3.0 the acid is losing strength and productivity. Check the pH after each agitation. If the pH rises above 3.0 add more acid. This process allows for a more accurate chemical treatment.

How to dispose of LIQUID DESCALER:

Waste resulting from treatment with LIQUID DESCALER contains a surface-active agent and, depending on quantity used and condition of the well treated, may be near neutral to very acidic. Cotey therefore recommends that waste be pumped to sewage, barrow ditches for natural evaporation and biodegradation, or to local pits for evaporation and consequent filling provided infiltration will not contaminate a local aquifer. In all cases waste should be thoroughly diluted. (Local, State and Federal regulations should be adhered to.)

CAUTION:

DO NOT MIX LIQUID DESCALER WITH OTHER CHEMICALS!

When using this product, wear eye goggles or safety glasses.

LIQUID DESCALER is a blend of liquid acids, polymers, surfactants and inhibitors. Thus, skin or eyes should be flushed with water if contact occurs and medical attention should be secured, particularly for the eyes. Avoid breathing spray or mist. If ingested drink large amounts of liquid such as tea, coffee, water or milk and raw eggs if available. Secure immediate medical aid.

LIQUID DESCALER is safe on all common metals in well equipment except for prolonged contact with aluminum or galvanized equipment. Use DRY ACID® SPECIAL and BIOCLEAN for descaling aluminum or galvanized equipment.

LIQUID DESCALER is packaged in 1-gallon, 5-gallon and 55-gallon containers.

Diameter of Casing or hole (inches)	Gallons 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



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