

Descale Safe Nu-Well 120 Liquid Acid

Descale Safe is the optimal basic ingredient for many cleaning applications

Description

Liquid, food grade phosphoric mineral acid effectively removes common mineral deposits (carbonate, iron, manganese, sulfates) found in wells, filter beds, and water system equipment. NSF certified for potable well systems.

A strong liquid acid for use in attacking stubborn mineral scale without risk to stainless steel screens or casings, **Descale Safe** is a chemically clean acid that won't harm the well structure. When combined with **Bio Dispersant NW-310**, **Descale Safe** offers passivation of corrosion impacted areas, prolonging life of older well completions and protecting pumps and tooling.

Application

When possible, obtain information on construction and performance history and submit water samples for laboratory analysis before application to determine if dosage modifications are warranted.

1. **Descale Safe** should be mixed into a tank of water and acid equal to 40% of the total treatment volume. Use the dosage table to calculate the recommended dosage for general well cleaning. In wells with over 100 ft of screened intervals, it is recommended to use 1.5 times the treatment volume to account for the filter pack.
2. The mixture should be placed evenly across the well screens. Placement methods should ensure contact with affected regions at the desired concentration. Agitation of the acid into the plugged area will greatly enhance the effectiveness of the cleaning.
3. The acid solution should remain in contact for a period of 12 to 48 hours, depending on the nature of the plugging.
4. Monitor the pH during the during treatment, keep below 3.0 for effective cleaning. If pH level rises above 3.0, add additional acid solution of approximately 20% of original volume. The amount of acid used will depend on the degree of mineral scaling.
5. Discharge the acid solution from the well, neutralize on the surface with **Neutralizer NW-600** and dispose in accordance with government regulations.



Physical properties, shipping and handling

Appearance: Clear colorless liquid, no odor

Density: 13.2 lbs./gal.

Solubility in water: 100% in water

Freeze point: 26°F (-3°C)

pH (as shipped): Aqueous approximately 1.00 to 2.00

- **Descale Safe** is a strong acid base and does not store well with strong alkaline materials or oxidizers
- Dust respirators and goggles should be worn where possibility of dust or mist exists, use in well-ventilated area, wear protection glasses
- Hazardous Class: 8, UNI 805, PGIII
- Can be shipped ground by common carrier DOT Label CORROSIVE
- Additional physical and handling data are available on the product SDS
- Available in 15, 55 and 275 gal. containers

Nominal Well Size		Standard Dosage	
in.	mm	gal./ft.	l/m
2	51	0.01	0.1
3	76	0.02	0.3
4	102	0.04	0.5
5	127	0.07	0.9
6	152	0.1	1.2
8	203	0.2	2.2
10	254	0.3	3.4
12	305	0.4	4.9
14	356	0.5	6.7
16	406	0.7	8.7
18	457	0.9	11.1
20	508	1.1	13.7
22	559	1.3	16.5
24	610	1.6	19.7
26	660	1.9	23.1
30	762	2.5	30.7
34	864	3.2	39.5
36	914	3.6	44.2

Dosage Guide Descale Plus

Example

Treat 12 in. well, 180 ft. TD, SWL = 40 ft.

Step 1 Static height = (180 ft. - 40 ft.) = 140 ft.

Step 2 Dosage Value = 0.4 gal./ft. (12 in. well)

Step 3 Volume of **Descale Safe** = (140 ft. x 0.4 gal./ft.) = 56 gal.

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