



**Johnson
Screens**

A brand of
Aqseptence Group

Descale Heavy Nu-Well 130 Liquid Acid

Description

Descale Heavy is an aggressive acid for use in wells with heavy accumulation of calcium carbonate and calcium sulfate scale. **Descale Heavy** is a NSF certified hydrochloric acid that effectively removes calcium carbonate, calcium sulfate and other mineral deposits found in wells. When combined with **Bio Dispersant NW-310**, **Descale Heavy** offers inhibition of the acid against metals in the well.

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 Heavy** should be mixed into a tank containing a volume of water equal to 40% of the total treatment volume. Use the dosage table to calculate the recommended dosage for general well cleaning. In wells with longer screened intervals over 100 ft it is recommended to use 1.5 times the treatment volume to account for the filter pack.
2. This 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 treatment, keep to 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, slight amber colored liquid

Density: 9.68 lbs./gal.

pH (as shipped): Aqueous approximately 0.25 to 0.5

Melting/Freeze point: -29 °F (-34 °C)

Initial boiling point and boiling range: 107° F (41°C) estimated

Solubility: 100%

Use range: 2 to 12% by volume

- **Descale Heavy** is a strong acid base and does not store well with strong alkaline materials or oxidizers
- Respirators and goggles should be worn where possibility of mist or splash exists, use in well-ventilated area, wear protective gloves
- UN Number: 1789, Hazardous Class: 8, Packing Group II
- Can be shipped ground by common carrier DOT Label CORROSIVE
- Additional physical and handling data are available on the product SDS
- Available in 15 and 55 gal.

Nominal Well Size		Standard Dosage	
in.	mm	gal/ft	l/m
2	51	0.04	0.4
3	76	0.08	1.0
4	102	0.1	1.8
5	127	0.2	2.8
6	152	0.3	4.0
8	203	0.6	7.2
10	254	0.9	11
12	305	1.3	16
14	356	1.8	22
16	406	2.3	29
18	457	2.9	36
20	508	3.6	45
22	559	4.4	54
24	610	5.2	65
26	660	6	76
30	762	8	101
34	864	10	130
36	914	12	146

Dosage Guide Descale Heavy

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 = 1.3 gal./ft. (12-in well)

Step 3 Volume of **Descale Heavy** = 140 ft. x 1.3 gal./ft. = 182 gal.

Johnson Screens Water Well Screens

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