

Descale Plus Nu-Well 110 Granular Plus

Description

- Dry granular acid blend for cleaning residential, irrigation, commercial and municipal water wells
- Cleans calcium and magnesium carbonate scale, moderate iron deposits
- Contains inhibitor to protect metal surfaces
- Incorporates a penetrant to clean deep into filter pack and formation
- Does not release harmful vapors as does hydrochloric acid
- Easy to use and handle
- NSF certified for potable water well use

Application

Descale Plus is used in well cleaning operations as a granular product mixed in a tank with water to dissolved and then pumped into the well as a liquid. 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 Plus** should be mixed into a tank of water equal to 40% of the total treatment volume. The attached table provides 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. Product has limited use where heavy deposits of gypsum are suspected (add **Bio Dispersant NW-310** in this situation).
4. Monitor pH often during treatment and keep below 3.0 for effective cleaning. If pH rises above 3.0 add additional acid solution of approximately 20% of original volume. The amount of acid consumed 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 the appropriate regulations.



Physical properties, shipping and handling

Appearance: Yellow-white crystalline powder

Density: Approximately 80 lbs./ft.³

Solubility: Approximately 20% by weight @ 68°F (20°C)
(approximately 1 lb./gal. of water)

- **Descale Plus** is a strong acid-base and should not be stored with strong alkaline material or oxidizers
- Dust respirators and goggles should be worn where the possibility of dust or mist exists, use in well-ventilated area, wear protective gloves
- Not regulated as a hazardous material under 49CFR 172.101
- Can be shipped by common carrier, DOT Label CORROSIVE
- Additional physical and handling data are available on the product SDS
- Decomposes at 390° F (200°C)
- Available in 50 and 80 lbs. containers

Dosage Guide Descale Plus

Nominal Well Size		Standard Dosage	
in.	mm	lbs./ft	kg/m
2	51	0.1	0.1
3	76	0.2	0.2
4	102	0.3	0.4
5	127	0.4	0.6
6	152	0.6	0.9
8	203	1.1	1.6
10	254	1.7	2.5
12	305	2.5	3.7
14	356	3.4	5.0
16	406	4.4	6.5
18	457	5.6	8.2
20	508	6.9	10.2
22	559	8.3	12.3
24	610	9.9	14.6
30	762	15.5	22.9
36	914	22.3	33.0

Example

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

Step 1

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

Step 2

Amount acid = 140 ft. x 2.5 lbs./ft. = 350 lbs.

Step 3

Mix 350 lbs. **Descale Plus** with water and apply.*

* Better results can be achieved when the total treatment volume of chemical solution is 1.5 to 2 times the static well volume (allowing for penetration into surrounding formation).

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