



**Johnson
Screens**

A brand of
Aqseptence Group

Clay Dispersant Nu-Well 220 Dispersant

Description

In new well systems, use **Clay Dispersant** liquid polymer to break down drilling mud, remove natural clays and speed up well development.

- **Clay Dispersant** polymer uses liquid dispersant chemistry specifically designed to remove mud and clay from the well environment
- Successfully develops new wells without using phosphates
- Eliminates food source for bacteria (100 percent water soluble, readily flushed from well)
- Rehabilitates old wells plugged with clays, silts and fines
- NSF certified for potable water well use

Application

For optimal removal of bentonite drilling fluids, separately pre-treat the well with 1,500 ppm chlorine to break down the polymers that are included in most commercial bentonite products. Thoroughly flush the chlorine solution from the well. Determine the drilling fluid volume and apply **Clay Dispersant** polymer at the rate of 1 gal. per 500 gal. of drilling fluid in the system to be broken down and removed from the well. Vigorously agitate by mechanical means for several hours (approximately 1/2 hour per 20 ft. of intake). If left in the well overnight, agitate before pumping out. Allow a minimum of 6 to 8 hours contact time, downhole.

In older well systems use **Clay Dispersant** polymer to remove fine sands, mud and clays that have filled in the gravel pack and borehole. Use at a rate of 1 gal. per 300 gal. of water. Vigorously agitate (by mechanical means), allowing the solution to stand in the well overnight and repeat the agitation the next day, before pumping out. Allow a minimum of 6 to 8 hours contact time, downhole.



Physical properties, shipping and handling

Appearance: Clear, slight amber colored liquid

Density: 10.5 lbs./gal.

Specific Gravity: 1.27

pH (as shipped): 7.0

Freeze point: 20°F (-3°C)

Solubility: 100%

Use range: 0.002% to 0.5% by volume

- Not regulated as a hazardous material under 49CFR 172.101; however, in storage or use, avoid contact with strong acids or alkaline-based products
- Additional physical and handling data are available on the product SDS
- 1 gal. and 5 gal. containers can be shipped by UPS ground delivery
- Available in 1, 5, 30 and 55 gal. containers

Nominal Well Size		New Well (@ 1:500)		Old Well (@ 1:300)	
in.	mm	gal./ft.	l/m	gal./ft.	l/m
2	51	0.001	0.01	0.001	0.01
3	76	0.001	0.01	0.001	0.02
4	102	0.001	0.02	0.002	0.03
5	127	0.002	0.03	0.003	0.04
6	152	0.003	0.04	0.005	0.06
8	203	0.005	0.06	0.009	0.1
10	254	0.008	0.1	0.01	0.2
12	305	0.01	0.1	0.02	0.2
14	356	0.02	0.2	0.03	0.3
16	406	0.02	0.3	0.03	0.4
18	457	0.03	0.3	0.04	0.5
20	508	0.03	0.4	0.05	0.7
22	559	0.04	0.5	0.07	0.8
24	610	0.05	0.6	0.08	1.0
26	660	0.06	0.7	0.09	1.1
30	762	0.07	0.9	0.1	1.5
34	864	0.09	1.2	0.2	2.0
36	914	0.1	1.3	0.2	2.2

Dosage Guide Clay Dispersant

Example

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

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

Step 2: Dosage Value = 0.02 gal./ft. (12 in. well)

Step 3: Volume of **Clay Dispersant** =
(140 ft. x 0.02 gal./ft.) = 2.8 gal.

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