

## DPA™ DRY PENETRATING AGENT



### DESCRIPTION

DPA cleans casing, screens, gravel packs, and water-bearing formations of deposits consisting of mineral scale. Calcium carbonate, iron, and manganese are the most common. DPA is a granular product and is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals - Health Effects.

### RECOMMENDED USE

DPA is a safe-to-handle, dry penetrating agent that produces a strong acid to dissolve carbonates and hydroxides of calcium, iron, and manganese on the well casing, screen, gravel pack, and pumps.

### CHARACTERISTICS

DPA in dry form will not emit fumes and will not irritate the skin. It is safer to handle than hydrochloric or muriatic acid. Upon dissolution in water, DPA penetrates mineral encrustations, converting them to soluble salts, which are easily pumped to waste. DPA is much less corrosive on well materials (screen, pumps) than traditional chemicals such as hydrochloric acid.

### MIXING AND APPLICATION

1. Test well pH before starting treatment. Disconnect pumping system.
2. Calculate quantity of DPA required according to the Dosage Table. Normal dosage is 0.25 lb per gallon. Dosage for severe encrustation is 0.5 lb per gallon. If gravel pack is present, the volume of water in it should be accounted for as part of the total well volume (typical porosity of gravel pack is 30-40%).
3. Dissolve DPA in water and add to the well. Agitate the well for 12-48 hours by surging, jetting, or circulating the water. Treatment time will vary depending on well construction and severity of encrustation.
4. After required contact time, well should be purged until there are no traces of discoloring or particulate matter from mineral deposits in the purge water.
5. Once the purge water is visually free of color or particulate matter, an additional five well volumes should be removed from the well. Water should be free of acid to within 0.5 units of original pH.
6. If the purge water is acidic, it should be neutralized prior to discharge.



7. (Optional) Chlorinate the well with a shock treatment of sodium hypochlorite to 500-1,000 ppm. Pump the well until clear of chlorine.

### DPA DOSAGE TABLE (0.25 lb per gallon)

Well Diameter	Lbs/10 ft of Water
2"	0.41 lb
4"	1.64 lbs
6"	3.69 lbs
8"	6.56 lbs
10"	10.25 lbs
12"	14.76 lbs
14"	20.09 lbs
16"	26.23 lbs
18"	33.20 lbs
20"	40.99 lbs

\*For severe encrustations, double the amount of DPA shown above.

### PACKAGING

43 lb (19.35 kg) pail, 48 per pallet or 476 lb (214 kg) drum, 4 per pallet. All pallets are plastic-wrapped.

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UPDATED: JULY 2015

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FORM: TDS\_DPA\_AM\_EN\_201507



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