

Welldone super absorbent polymer Potassium Polyacrylate have three model : Powders, micro granules, granules . According to different crop needs and soil type models to selected the model .

PRODUCT DISPLAY

LARGER GRANULES

SAP

WD-KS01



MICRO GRANULES

SAP

WD-KS02



POWDER

SAP

WD-KS03



Welldone Super absorbent polymer technical indicator

Name	Super Absorbent Polymer For Agriculture
Dry Matter	85% - 95%
Appearance of the product	Dry = white powder Hydrated = transparent gel
PH	6.5-7.5
Particle size	Powders, micro granules, granules
Maximum absorption (in w/w)*	≥350 in deionized water;150 in soil
Dosage	Substrate: 1 to 2 gram per liter Broadcast on soil: 20 to 50 gram per
Available water at pF4.2 (near-permanent wilting point)	95%
Effectiveness in soil	Up to 5 years
Shelf life of the dry product	2years
Toxicity in soil	None under normal conditions of use
Packaging	25kg per kraft bag
Storage temperature	0° - 35°C

Welldone super absorbent polymer Potassium Polyacrylate Features & Benefits

1. SAFETY AND BIODEGRADATION SAP
2. IRRIGATION FREQUENCY REDUCED 50%.
3. ENHANCES PLANT GROWTH
4. IMPROVING SOIL STRUCTURE
5. LIMITS LOSSES NUTRIENT
6. LONG SERVICE LIFE

FEATURES & BENEFITS



1 SAFETY AND BIODEGRADATION

WELLDONE SAP® polymer degrades naturally in soils (up to 10% - 15% per year) in CO₂, H₂O no residue, pollution of plants, soil.

2 IRRIGATION FREQUENCY REDUCED 50%.

Potassium(K⁺) polyacrylate based SAP can moisture holding increases the Water Holding Capacity of soils for several years.

3 ENHANCES PLANT GROWTH

Water and nutrients are continuously available in the root zone for optimal absorption by plants.

4 IMPROVING SOIL STRUCTURE

Improves the physical properties of compact soils through good aeration.

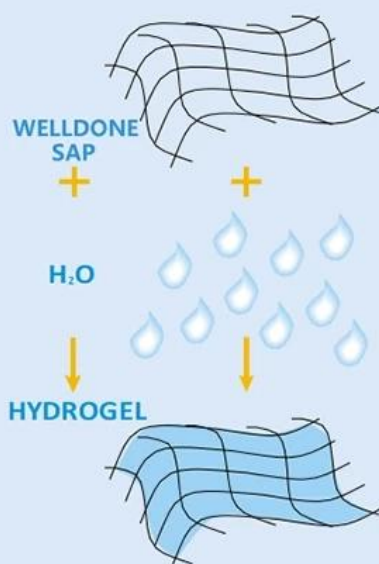
5 LIMITS LOSSES NUTRIENT

Improve the utilization rate of fertilizer, soil water retention agent in the soil formed in the "small reservoir" absorption of fertilizer.

6 LONG SERVICE LIFE

Repeated water absorption expansion and release contraction, Effectiveness in soil up to 5 years.

HOW IT WORKS



ABSORBING WATER

- The polymer consists of a set of polymeric chains that are parallel to each other and regularly to each other by cross-linking agents, thus forming a network.
- When water comes into contact with one of these chains, it is drawn into the molecule by osmosis.
- Water rapidly migrates into the interior of the polymer network where it is stored.

RELEASING WATER

- As the soil dries out, the polymer releases up to 95% of the absorbed water into the soil.

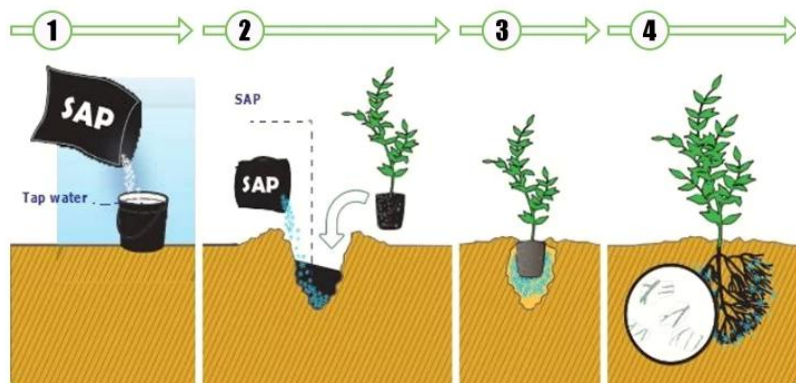
Method of use of water retaining agent SAP super absorbent polymer

METHODS OF INCORPORATION

Three main methods of incorporation are proposed according to the application considered.

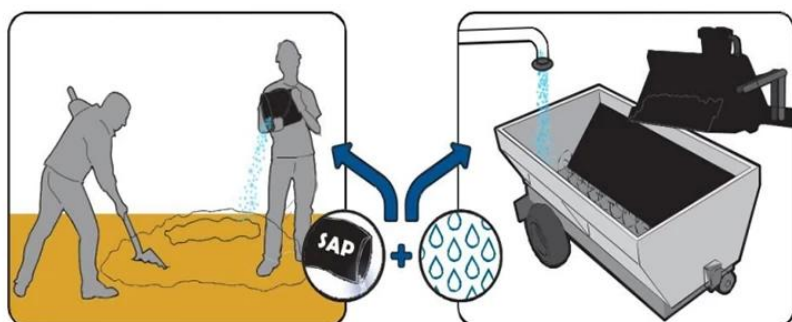
1 FORESTATION

The WELLDONE SAP pre-hydrated is implemented directly in the field, by hand or with specific tools (forestation; landscaping).



2 POTTING MIXES

WELLDONE SAP is incorporated into a substrate (dry or hydrated), the "mixed" being used for nurseries or potting mix.



3 LARGE SCALE FARMING

The WELLDONE SAP is implemented in the sowing coulters during the crops sowing, by using a pneumatic micro granular spreader. Whatever the mode of incorporation is, the product has to be properly buried into the soil, to be protected from UV radiations.

