

# DEKOMPAKT®

Aerates Compacted Soils



DeKompakt consists of a soluble calcium form as well as fulvic acid. The main functions of DeKompakt are below:

## 1 Soluble Calcium Form

Plant nutrient that promotes root growth and strengthens plant cell walls.

## 2 Fulvic Acid

Stimulate microbiology in the soil and has a positive influence on bacteria that mineralized nutrients for plant uptake.

The main effects of applying DeKompakt:

- DeKompakt flocculates the soil increasing water infiltration and aeration - allowing for increased soil oxygen levels which promotes new root growth.
- DeKompakt displaces salts like Sodium (Na+) leaching them into the subsoil.
- Microbial activity promotes mineralization of calcium from the mother rock.
- DeKompakt is also a source of Nitrogen.



**DAMARA**  
**BIO-AGRI**

Restoring The Power Of Nature.

**AECI®**  
PLANT HEALTH

Supplied by Saiwit Holdings (Pvt) Ltd., T/A Damara Bio-Agri.  
Stand 583 Pomona Industrial Park, Borrowdale, Harare, Zimbabwe.

Tel: +263 8677005277  
Email: sales@damarabioagri.com

[www.damarabioagri.com](http://www.damarabioagri.com)

# DEKOMPAKT®

## Aerates Compacted Soils

### Soil chemical analyses pre and post soil conditioning program

Programme:

1) Change irrigation scheduling protocol to shorter pulses more often

2) One application of Transformer @ 5L/ha

3) Two applications of DeKompakt @ 50L/ha

Block	Resistance 201	Resistance 201		Chemical Analyses 2017				Chemical Analyses 2019			
				K	Ca	Mg	Na	K	Ca	Mg	Na
K4	654	1334	ppm	44	1095	307	143	51	1615	204	77
			%	1	63	29	7	1	76	16	3
K5	381	1002	ppm	93	877	460	205	50	1424	199	99
			%	2	45	39	9	1	76	18	5
W4	866	1791	ppm	77	1107	342	104	61	968	246	56
			%	2	59	30	5	2	63	26	3
W6	541	1283	ppm	55	1069	451	163	60	1230	367	77
			%	1	52	36	7	2	61	30	3
W2	1045	2192	ppm	116	900	153	76	94	961	149	36
			%	5	70	20	5	4	75	19	2
W5	1717	2137	ppm	52	986	254	61	71	1004	179	44
			%	2	64	27	3	3	73	21	3
P8	733	2770	ppm	103	793	372	113	80	759	145	30
			%	3	48	37	6	4	67	21	2
P2	640	2051	ppm	90	1218	171	132	71	1120	212	46
			%	3	73	17	7	2	73	23	3
P5	683	1499	ppm	102	1193	241	121	76	1460	193	62
			%	3	66	22	6	2	78	17	3
P1	757	1440	ppm	44	1389	243	127	183	1241	166	33
			%	1	72	21	6	6	76	17	2
P4	640	1419	ppm	110	1088	279	126	88	1910	181	18
			%	3	64	27	6	2	84	13	1

## Soil Conditioning Results Explained:



- The application of DeKompakt helped break open the chemical compaction layer in the soil at around 20 to 30cm soil depth.
- There was no water infiltration past that layer causing magnesium, and to a lesser extent sodium, to accumulate.
- DeKompakt broke the compaction layer, which helped to leach the excess magnesium and sodium, consequently increasing the resistance. The leached cations were replaced by Calcium which is more inclined to absorb the clay particles.



**DAMARA**  
**BIO-AGRI**

Restoring The Power Of Nature.

Supplied by Saiwit Holdings (Pvt) Ltd., T/A Damara Bio-Agri.  
Stand 583 Pomona Industrial Park, Borrowdale, Harare, Zimbabwe.

Tel: +263 8677005277

Email: sales@damarabioagri.com

[www.damarabioagri.com](http://www.damarabioagri.com)