

Soil Improver Powder/Tablets

Soil improver – Superabsorbent polymer – Enriched with fertilisers and microorganisms

Principle

Hydrogel-based soil conditioner enriched with slow-release nutrients and beneficial soil microorganisms.

Form	Tablets	Loose mixture
Granulation	Diameter 25 mm	Powder fraction 0–2 mm
Table weight	5g	
Dry appearance	Grey solid tablets	Grey blended powder
Watered appearance	Green-blue gel with particles	
pH:	Neutral to slightly acid	
Designation	Improves soil condition and water retention in the treated area. Enhances nutrient utilisation and plant resilience.	
Safety	Non-toxic, non-flammable, non-explosive.	
Packing	20 kg PE/PP bag, 10 kg carton, 5 kg PP bucket; 250 g PE jar	
Storage	Keep in a dry place, avoid moisture.	

HYDROGEL ABSORPTION PROPERTIES Measurement Conditions	Maximum Absorption Capacity	Absorption Under Soil Pressure (depth 20 cm)
Max. Declared Capacity (distilled water, salt-free, no pressure)	250 (> ml/g)	N/A
0.125% NPK Solution	150 (> ml/g)	100 (> g/g)
Table Water (hardness 4°)	100 (> ml/g)	50 (> g/g)
Synthetic Soil Solution	60 (> ml/g)	30 (> g/g)

- Tested at 20 °C.
- Values represent minimums (> denotes “greater than”).
- Absorption capacity decreases with increasing mineral and salt content in the water.

Potassium polyacrylate 39 % of total weight

Potassium humate (humic, fulvic acids) 1 % of total weight

Guaranteed analysis % EU NZ & AUS

Nitrogen	(N)	4.67	0.67
Phosphorus	(P2O5) (P)	2.71	1.18
Potassium	(K2O) (K)	13.6	11.3
Magnesium	(MgO) (Mg)	6.13	3.69
Calcium	(CaO) (Ca)	0.61	0.44
Silicon	(Si)	7.74	7.74

Beneficial soil microorganisms

Bacillus licheniformis	5×10 ⁸ CFU/kg
Bacillus velezensis	5×10 ⁸ CFU/kg
Bacillus megaterium	5×10 ⁷ CFU/kg

Coexisting fungal strains

Mycorrhizal glomus intraradices	1500 spores/kg
Mycorrhizal glomus mosseae	1000 spores/kg
Trichoderma MUCL45632	

Impurities: Cadmium (Cd) <50 mg Cd/kg product; Lead (Pb) <15 mg Pb/kg product; Mercury (Hg) <1,0 mg Hg/kg product; Arsenic (As) <10 mg As/kg product; Chromium (Cr) <150 mg Cr/kg product;