

SOIL ACTIVATOR USER GUIDE

Specifications

Guaranteed Microorganisms		Electrical Conductivity		
Bacillus subtilis Bacillus amyloliquefaciens Bacudomonas montoliii	2.48x10 ⁸ cfu/g 5.00x10 ⁶ cfu/g 1.0x10 ⁶ cfu/g	Concentration (g/L)	Electrical Conductivity (ms/cm)	
	1.0X10° Clu/g	5	1.71	
Technical characteristics		10	3.10	1 1 41
Density	0.38-0.5 g/cc	15	4.43	1
рН	6-9*	20	5.70	
Maximum solubility	300 g/L @ 20°C	30	8.06	120
Recommended water mixing ratio	Up to 50 g/L water	40	10.18	and the second
Storage	Up to 3 years (5 – 25°C)	50	12.07	and the state of the
Handling * NOTE: Soil Activator is manufactured v	No special precautions required vith natural ingredients. Variation in pH between lots wi	ill not affect performance.		NEDO

General Guidelines

- Not crop or soil specific: compatible with all crops and soils
- Apply once per growing cycle, as part of a balanced fertilization program
- Effective in conventional and organic production systems
- Approved for organic farming

Application Methods

Field Application, Dry

- *Mix with dry fertilizer*: In a separate container from the application equipment, add product to fertilizer and mix thoroughly until evenly mixed. For granular products, use up to 3 kg per 100 kg of fertilizer.
- Seed inoculation: Use up to 1 kg per 100 kg of seed. In a separate container from the planting equipment, apply just enough water to seed to slightly dampen. Mix damp seeds thoroughly with Soil Activator until they are evenly coated. Allow seeds to dry before further handling.
- Transplanting: apply dry powder directly to each hole based on planting density and the size of the hole

Field Application, Wet

- Ideal pH for mixture: between 5.0 and 8.5
- Drench application is recommended: Use up to 50 g per L of water. Mix with water and apply directly to soil surface as a drench. Use flood-type nozzles for large droplet size and good soil penetration.

Other options

- Mix with organic matter (compost, manure, etc.): Apply to fresh manure just prior to application to prevent heating of the pile. Apply to compost after composting process is complete, ideally 2 4 weeks prior to field application. Do not apply Soil Activator prior to composting heat cycles
- Mix with growing media: ideally 24-48 hours before seeding or planting (maximum 4 weeks before)
- *Transplant root dip:* Mix Soil Activator with water, 10 g/L, and soak transplant roots for up to 4 hours prior to transplanting. Roots do not need to be rinsed prior to dipping

Questions?

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Application doses

SOIL ACTIVATOR™

Use general instructions for each category unless specific crop is listed

Note: Rates for broadcast application are different from concentrated bands (on-row, on-seed, in-furrow, side-banded, etc.)

CROP	RATE	TIMING	NOTES		
Field Crops					
General instructions	3-4 kg/ha band	At planting			
barley, cotton, dry beans, maize, millet, sorghum, soybean, wheat, etc.	10 kg/ha broadcast				
Rice	4 kg/ha with seed	At planting or	Apply before paddy is flooded where possible		
	10 kg/ha broadcast	Fertilization			
	1 g/L soil in nursery				
Peanut	3-4 kg/ha banded	At planting or			
Sugarcane	25 kg/ha banded	Late tillering			
Field Vegetables and fruits			1		
General instructions	10 kg/ha banded	At transplanting			
onions penners tomatoes etc					
Pineapple	10 kg/ha banded	Transplanting and	For ration crops, make the first application 30 days		
		every 6 months	after harvest.		
Potato	3 kg/ha banded	At emergence	Use drench method directly on hills with enough water		
			for good soil penetration		
Flowers					
Greenhouse production	2.5 g/m of bed	Once per	Use drench method for best results		
(roses, clavel, pompon, etc.)		production cycle			
Field production	10 kg/ha banded	Planting	Use drench method for best results		
(astromelia, etc.)					
Small and herbaceous perennials					
General instructions	10 kg/ha banded	Pre-flowering	Use drench method at the base of plants		
berries, grapes, lulo, strawberries, etc.	25 hadha handad	Due flavoria e	the dense weathed states have affective.		
Blueberries (and other acid-soil crops)	25 kg/ha banded	Pre-flowering	Use drench method at the base of plants		
	10 kg/11a bi Odučast	Seeding of spring	Ose dienci method to penetrate into root zone		
Large perennials					
General instructions	25 kg/ha	Pre-flowering	Apply in a circle around each tree as wide as branches		
apple, avocado, citrus, nazelnut,					
Banana	25 kg/ha	Every 6 months	Apply in a half circle on the daughter-side of each plant		
Cacao	25 kg/ha	Beginning of rainy	Apply in a circle around each tree as wide as branches		
	0,	season			
Coffee	25 kg/ha	Early fruit growth	Can be applied every 6 months to maintain production		
Oil Palm	See notes	Every 6 months	Apply in circle based on on age of tree:		
			1st Year: 12 g/tree, 1 m radius		
			2nd Year: 50 g/tree, 2 m radius		
New plantings	10 kg/ba	At transplanting	Apply directly to hole or in ring around hase of tree		
Other options					
Mixing with compost / organic matter	0.8 kg/tonne	See page 1: Application Methods	Increase the mixing rate when less than 12 tonnes/ha of organic matter will be applied		
Mixing with growing media	1.5 g/L	24 – 48 hours	Suitable for soil and soilless substrates		
(Greenhouse, hydroponics, etc.)		before planting			