

Cell-Tech[®] West granular nitrogen-fixing inoculant for

soybean

Extended label

Cell-Tech Single-Action Legume Fertility

Net weight

18 kg (40 lb)

How to apply

Cell-Tech granular should be applied directly with the seed in the seed row using a granular tank for application. Application rates will vary according to row spacing (refer to Table 1).

- Drop Cell-Tech granular bags once on each edge to loosen compacted granules
- Before using, make sure the hopper, rotor, feed mechanism, and calibration equipment are free from chemical residue, fertilizer, and debris
- Make sure that the tubing to the planting shoe is as straight and vertical as possible
- Do not auger Cell-Tech granular
- Do not mix Cell-Tech granular in the same tank with fertilizers, granular pesticides, or seed
- Use air seeder tank screen when filling tank or seed cart
- Apply in-furrow only. Do not band
- Cell-Tech granular can be used with pesticide treated seed
- Follow calibration instructions supplied by the air cart manufacturer. Check flow regularly
- Calibrate your equipment to deliver the correct amount of Cell-Tech granular per acre for your row spacing (refer to Table 1)

MINIMUM GUARANTEE

ACTIVE:: 1.0 x 10⁸ *Bradyrhizobium japonicum* viable cells per gram

Inert: Peat granules and water

- Calibrate with a few bags before adding more inoculant to the tank or seed cart
- A maximum of 16 bags per tank should be used. Under humid conditions, reduce the number of bags per tank and check flow on a regular basis
- Do not leave Cell-Tech granular in tank or seed cart overnight

Special considerations

Environmental conditions can change the flowability of Cell-Tech granular inoculant.

- Do not allow Cell-Tech granular to get wet or to dry out
- In humid conditions, check and clean metering system regularly to ensure consistent flow

How it works

The active ingredient in Cell-Tech for soybean, the naturally occurring bacterium *Bradyrhizobium japonicum*, grows on plant roots and forms root nodules which convert or fix nitrogen from the air into forms the plants can use.

Table 1. Application rates for 18 kg (40 lb) bag of Cell-Tech granular

Row spacing	15.2 cm (6.0 in)	17.8 cm (7.0 in)	20.3 cm (8.0 in)	22.9 cm (9.0 in)	25.4 cm (10.0 in)	30.5 cm (12.0 in)	38.1 cm (15.0 in)	61.0 cm (24.0 in)	76.2 cm (30.0 in)
Application rates	8.0 kg/ha (7.1 lb/ac)	6.9 kg/ha (6.2 lb/ac)	6.0 kg/ha (5.4 lb/ac)	5.3 kg/ha (4.7 lb/ac)	4.8 kg/ha (4.3 lb/ac)	4.0 kg/ha (3.6 lb/ac)	3.2 kg/ha (2.9 lb/ac)	2.0 kg/ha (1.8 lb/ac)	1.6 kg/ac (1.4 lb/ac)
Area treated per bag	2.25 ha (5.6 ac)	2.6 ha (6.5 ac)	3.0 ha (7.4 ac)	3.4 ha (8.5 ac)	3.75 ha (9.3 ac)	4.5 ha (11.1 ac)	5.6 ha/ (13.8 ac)	9.0 ha (22.2 ac)	11.2 ha (28.6 ac)

Note: The bulk density for Cell-Tech granular averages 43 lb/ft³ (0.7 g/cm³).

Cell-Tech®

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Storage and handling

The active ingredient in Cell-Tech is a living organism that requires specific storage conditions to ensure viability and product performance. To maintain product viability:

- Store Cell-Tech bags under cool conditions < 20 °C (68 °F) away from sunlight and direct heat sources
- Minimize temperature fluctuations
- Avoid freeze/thaw cycles
- Use entire contents of bag within 24 hours after opening. Do not store opened bags of Cell-Tech
- Use before the expiry date. The expiry date is valid only for unopened bags stored under the conditions listed above
- Use this product only in well-ventilated areas

Cell-Tech granular contains viable bacteria cells. This product may cause adverse effects to individuals allergic to molds and/or fungi and should not be used by immunocompromised and/or immunosuppressed individuals. Absorption by eye or skin contact, inhalation, and ingestion must be prevented at all times when handling this product. Users MUST wear standard protective clothing and equipment including gloves, safety glasses, and a NIOSH-approved respirator during product use and storage as well as during equipment maintenance and clean-up. In case of contact with skin or eyes, immediately flush exposed areas with plenty of water. Get medical attention if irritation occurs.

Unused Cell-Tech should be disposed of in accordance with applicable civil statutes and guidelines.

Where to use for maximum benefit

Higher nitrogen fixation from Cell-Tech occurs in soils that are low in available forms of nitrogen and populations of *Bradyrhizobium japonicum*.

Where phosphate availability is limiting plant growth, Cell-Tech may be used with JumpStart® inoculated seed.

Limitations

Do not use Cell-Tech on soils with high nitrogen levels or with high application rates of nitrogen fertilizer.

Limited warranty

The seller warrants that this product contains a minimum number of *Bradyrhizobium japonicum* viable cells as specified on this label. The seller makes no other warranty expressed or implied as to product viability or performance since storage, use, and growing conditions are beyond the seller's control. Seller's guarantee is limited to the terms set out on the label and subject thereto. Buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.


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Rethink Tomorrow

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* Available 24 hours a day/
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