Nitrofix



Azospirillum / Rhizobium Bio Nitrogen-Fixer

Product Type: **BIO**

Product Overview

NITROFIX is a biological nitrogen-fixing fertilizer available in Nodulating, Associative, and Free-Living forms. It converts atmospheric nitrogen into a plant-available form, helping improve nitrogen supply while reducing dependence on synthetic nitrogen fertilizers.

Suitable Crops

Plantation Crops
Coffee, Tea

Field Crops
Maize, Sugarcane, Sweet Potato, Beans

Vegetables & Horticulture
Beans, French Beans

Mode of Action

Root & Soil Colonization
The bacterial strains establish either symbiotically within root nodules or freely within the rhizosphere.

Nitrogen Fixation
The nitrogenase enzyme system converts atmospheric nitrogen into ammonium, a plant-available form.

Plant Delivery
Fixed nitrogen becomes available to support chlorophyll synthesis and photosynthetic activity.

Key Benefits

- Fixes atmospheric nitrogen at 20–40 kg/hectare depending on strain type.
- Can reduce synthetic nitrogen fertilizer requirements by up to 25%.
- Available in three variants matched to crop type.
- Improves plant vigour and supports soil biological activity.
- Helps reduce fertilizer input costs for both smallholder and estate farming systems.

Recommended Application

Seed Treatment: 10 g/kg seed
Frequency: Once, before sowing
Soil / Drip Application: 3 kg/acre | 7.5 kg/ha
Timing: At planting

Best Time to Apply

Apply at planting or before sowing, depending on the application method, to establish nitrogen-fixing activity early in the crop cycle.

Field Recommendations

Pair with **PHOSFIX** and **KALIFIX** as part of a complete biological NPK nutrition programme designed to reduce dependence on synthetic fertilizers.

