

TECHNICAL DATA SHEET (TDS)

Catris 10-52-10+TE

High-Phosphorus Water-Soluble NPK Fertilizer with Trace Elements

Catris 10-52-10+TE is a specialized, water-soluble NPK fertilizer formulated to promote strong root development, abundant flowering, and improved fruit set in crops. With a high phosphorus content (52% P_2O_5), this fertilizer is ideal for seedling establishment, pre-flowering stages, and stress recovery.

The formulation is enriched with essential trace elements (Zn, Fe, B, etc.) to enhance plant resilience against stress and nutrient deficiencies. Suitable for soil application, foliar spray, and fertigation, Catris 10-52-10+TE supports high-value crops including vegetables, fruits, and ornamentals.

Key Features & Benefits

- **Ultra-High Phosphorus (52% P_2O_5)** – Maximizes root growth, flowering, and early plant vigor
- **Balanced N & K (10-10)** – Supports vegetative growth while improving disease resistance and fruit quality
- **Enriched with Trace Elements (Zn, Fe, B, etc.)** – Prevents micronutrient deficiencies and supports enzyme activity
- **Fully Water-Soluble** – Suitable for fertigation, hydroponics, and foliar application (no clogging in drip systems)
- **Rapid Absorption** – Quick nutrient availability for fast results in deficient soils
- **Versatile Application** – Ideal for vegetables, fruits, ornamentals, turf crops, and seedlings
- **Safe & Efficient** – Low salt index reduces risk of root burn when used as directed

Recommended Use

- **Transplanting & Early Growth** – Ensures strong root establishment
- **Pre-Flowering Stage** – Enhances flower formation and fruit set
- **Phosphorus-Deficient Soils** – Corrects stunted growth and purpling of leaves

Product Specifications

Parameter	Value	Role in Plants
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Nitrogen (N)	10%	Vegetative growth (leaves, stems)
Phosphorus (P ₂ O ₅)	52% (Water-Soluble)	Root development, flowering, energy transfer
Potassium (K ₂ O)	10%	Disease resistance, fruit quality
Trace Elements (TE)	Zn, Fe, B, etc.	Enzyme activation, stress tolerance
pH (1% Solution)	5.0 – 6.5	Optimized for nutrient uptake

Application Guidelines

Method	Dosage	Frequency	Notes
Foliar Spray	5–10 g/L water	Every 7–14 days	Apply at dawn or dusk
Fertigation	5–10 g/L water	Every 10–14 days	Ideal for drip irrigation
Soil Application	50–100 kg/ha	At planting	Mix into root zone

Safety Note

- Do not exceed **2 kg per 200 L of water**
- High phosphorus levels may block zinc or iron uptake if overused

Avoid Use In:

- Crops requiring low phosphorus or higher nitrogen
- Soils already high in phosphorus (risk of micronutrient lockout)

Safety & Storage

- **PPE:** Wear gloves and mask during handling (dust may irritate)
- **Storage:** Keep sealed in a dry place below 30 °C
- **Shelf Life:** 24 months from date of manufacture
- **Incompatibility:** Do not mix with calcium-based fertilizers (may form precipitates)

First Aid Measures

- **Eye Contact:** Rinse with clean water for at least 15 minutes
- **Ingestion:** Drink plenty of water and seek medical advice

Packaging

- 1 kg
- 5 kg
- 25 kg bags