

TECHNICAL DATA SHEET (TDS) DELMAR® 12-12-17 + TE

Balanced NPK Fertilizer for Fruiting Crops & Stress Resistance

DELMAR® 12-12-17 + TE is a balanced NPK fertilizer enriched with essential trace elements, specifically formulated to support fruiting crops during flowering, fruit setting, and fruit development stages. Its optimized nutrient ratio enhances fruit quality, improves stress tolerance, and promotes consistent yield under varying field conditions.

This formulation is suitable for both soil and fertigation systems, making it a reliable solution for intensive crop production.

KEY ADVANTAGES & BENEFITS

- **Balanced NPK Ratio (12-12-17)** – Supports healthy plant growth with emphasis on potassium for fruit development.
- **High Potassium Content** – Enhances fruit size, color, taste, firmness, and shelf life.
- **Improved Stress Resistance** – Helps crops tolerate drought, heat, and disease pressure.
- **Trace Element Enrichment (TE)** – Magnesium, sulfur, boron, and zinc support balanced nutrition and metabolic activity.
- **Versatile Application** – Suitable for soil application and fertigation systems.
- **High Solubility** – Ensures efficient nutrient uptake and uniform distribution.

GUARANTEED ANALYSIS

Parameter	Content	Function
Total Nitrogen (N)	12%	Promotes vigorous leaf and stem growth
Available Phosphorus (P ₂ O ₅)	12%	Stimulates root development and flowering
Soluble Potassium (K ₂ O)	17%	Enhances fruit quality and stress resistance
Trace Elements (TE)	Present	Mg, S, B for balanced nutrition

PHYSICAL & CHEMICAL PROPERTIES

- **Form:** Granular or crystalline
- **Solubility:** Water-soluble (fertigation compatible)
- **pH (5% solution):** 5.5 – 6.5

RECOMMENDED CROPS

Fruits

- Bananas, citrus, pineapples, tomatoes

Vegetables

- Cucurbits, peppers, eggplants

Plantation Crops

- Coffee, cocoa

APPLICATION METHODS & DOSAGE

Application Method	Dosage	Frequency
Broadcast (Soil)	300–600 kg/ha	Pre-planting + 2 splits
Fertigation	50–100 kg/ha per application	Every 15–20 days
Fruit Trees	1–2 kg/tree (drip zone)	3 applications per year

OPTIMAL APPLICATION TIMING

- **First Application:** Pre-flowering
- **Second Application:** Fruit setting
- **Third Application:** Fruit development

COMPOSITION DETAILS

Primary Nutrients

- Nitrogen sources: Urea, Ammonium Sulfate

- Phosphorus sources: Diammonium Phosphate (DAP), Monoammonium Phosphate (MAP)
- Potassium source: Muriate of Potash (KCl)

Secondary & Micronutrients

- Magnesium (Mg)
- Sulfur (S)
- Boron (B)
- Zinc (Zn)

COMPATIBILITY

Compatible with:

- Most pesticides (jar test recommended)
- NPK fertilizers with similar pH range

Incompatible with:

- Calcium nitrate
- Strong alkaline solutions (pH > 7.5)

SAFETY & HANDLING

- Wear appropriate PPE (gloves, mask) during handling
- Avoid mixing with calcium-based fertilizers
- Store in a cool, dry place away from moisture
- Keep out of reach of children and animals

FIRST AID MEASURES

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

STORAGE & SHELF LIFE

- Shelf life: **24 months** in original, unopened packaging
- Keep packaging tightly sealed and protected from direct sunlight

PACKAGING OPTIONS

- **5 kg bags**
- **25 kg bags**

DISCLAIMER

The information provided herein is based on current technical knowledge and practical experience. Recommendations are general guidelines only and should be adjusted according to soil analysis, crop requirements, and local agronomic conditions. The manufacturer assumes no responsibility for misuse or improper application.