



TECHNICAL DATA SHEET (TDS)

Vermicompost (Organic Fertilizer)

Product Name: Vermicompost (Worm Compost)

Product Type: Organic Fertilizer / Soil Conditioner

Brand: BASEKIM

Origin: Turkey / UAE

Appearance: Dark brown to black granular organic material

1. Product Description

BASEKIM Vermicompost is a premium organic fertilizer produced through the controlled biological decomposition of selected organic materials by composting earthworms. The product contains naturally available plant nutrients, beneficial microorganisms, humic substances, and organic matter that improve soil fertility, enhance microbial activity, and promote healthy plant growth.

The fertilizer is suitable for conventional agriculture, organic farming, horticulture, landscaping, greenhouse production, nurseries, fruit orchards, vineyards, and home gardening.

2. Typical Chemical & Physical Properties

Parameter	Specification
Appearance	Dark Brown to Black Granules
Odor	Earthy, Natural
Moisture	15–25 %
Organic Matter	≥35 %
Organic Carbon	≥18 %
Total Nitrogen (N)	≥1.0 %
Available Phosphorus (P ₂ O ₅)	≥0.8 %
Soluble Potassium (K ₂ O)	≥0.8 %
Humic & Fulvic Substances	Naturally Present
pH (1:5 Water)	6.5–7.5
Electrical Conductivity	≤4.0 mS/cm
Bulk Density	0.7–0.9 g/cm ³



Parameter	Specification
Particle Size	90% passing 4 mm sieve
Beneficial Microorganisms	Naturally Present
Weed Seeds	Absent
Pathogenic Organisms	Controlled under production process

Typical values may vary slightly depending on raw material and production batch.

3. Nutrient Composition

Primary Nutrients

- Nitrogen (N)
- Phosphorus (P_2O_5)
- Potassium (K_2O)

Secondary Nutrients

- Calcium
- Magnesium
- Sulfur

Micronutrients

- Iron (Fe)
- Zinc (Zn)
- Manganese (Mn)
- Copper (Cu)
- Boron (B)

All nutrients occur in naturally available organic forms that are gradually released into the soil.



4. Product Benefits

- Improves soil fertility
- Enhances soil structure
- Increases microbial activity
- Improves water retention
- Promotes root development
- Enhances nutrient uptake
- Supports seed germination
- Increases crop quality
- Improves plant resistance to environmental stress
- Safe for continuous application
- Reduces dependence on chemical fertilizers
- Environmentally friendly
- 100% natural and biodegradable

5. Recommended Applications

Field Crops

1–3 tons per hectare

Vegetable Crops

2–5 tons per hectare

Fruit Trees

2–5 kg per tree

Vineyards

2–4 tons per hectare

Greenhouse Crops

1–2 kg per m²

Flower Beds

0.5–1 kg per m²



Potting Mix

10–30% by volume

Application rates may be adjusted according to soil fertility, crop type, and agronomic recommendations.

6. Suitable Crops

- Vegetables
- Tomatoes
- Cucumbers
- Peppers
- Potatoes
- Citrus
- Apples
- Olives
- Grapes
- Berries
- Ornamentals
- Turf
- Landscape plants
- Nursery seedlings
- Indoor plants

7. Mode of Action

The organic matter improves soil aggregation while naturally occurring microorganisms stimulate biological activity. Nutrients are slowly released, reducing nutrient loss and improving fertilizer efficiency. Humic substances enhance nutrient availability and root growth while improving moisture retention.

8. Packaging

Available in:

- 25 kg PP Bags
- 40 kg PP Bags
- 1,000 kg Jumbo Bags



Private label packaging available upon request.

9. Storage

Store in a cool, dry, and well-ventilated place.

Protect from:

- Direct sunlight
- Rain
- Excessive moisture
- Contamination

Keep bags tightly closed after opening.

Shelf life is 24 months when stored under recommended conditions.

10. Safety Information

The product is non-toxic and environmentally safe.

Avoid excessive dust generation during handling.

Recommended PPE:

- Gloves
- Dust mask
- Safety glasses (when handling bulk quantities)

Wash hands after use.

Keep out of reach of children.

11. Environmental Information

- 100% Organic
- Biodegradable
- Safe for soil microorganisms
- Safe for beneficial insects
- Suitable for sustainable agriculture



- Helps improve long-term soil health

12. Quality Assurance

Every production batch is manufactured under controlled conditions and can be supplied with:

- Certificate of Analysis (COA)
- MSDS / SDS
- SGS Inspection (upon request)
- Commercial Invoice
- Packing List
- Certificate of Origin (where applicable)

13. Disclaimer

The information contained in this Technical Data Sheet is based on current knowledge and practical experience. The values presented are typical specifications and should not be considered as guaranteed analytical values unless confirmed by an official Certificate of Analysis. Users are responsible for determining the suitability of the product for their intended application.