



TECHNICAL DATA SHEET (TDS)

POWERDRIP NPK 8-16-40+TE

High-potassium water-soluble NPK fertiliser

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CEON Enterprise Ltd - Agricultural plant nutrition and specialty fertiliser documentation

1. Product identity and positioning

POWERDRIP NPK 8-16-40+TE is a water-soluble crystalline powder classified as a high-potassium water-soluble npk fertiliser. A concentrated potassium programme for crops requiring strong osmotic regulation, assimilate transport, fruit density and finishing quality.

The product is intended for integration into a crop-specific nutrition programme based on soil or substrate analysis, irrigation-water quality, crop stage and local agronomic conditions.

2. Guaranteed analysis

Parameter	Specification
Total Nitrogen (N)	8% w/w
Water-soluble Phosphorus Pentoxide (P2O5)	16% w/w
Water-soluble Potassium Oxide (K2O)	40% w/w
Trace elements	B, Cu, Fe, Mn, Mo and Zn - formulation declaration

Values are catalogue declarations. Commercial batch release must be supported by the signed batch COA and the approved market label.

3. Functional agronomy

- Supplies rapidly available macronutrients through fertigation or dissolved application.
- Supports stage-specific nutrient ratios and helps avoid unnecessary nutrient loading.
- Designed for complete dissolution when mixed in good-quality water under correct agitation.
- Trace elements complement the main NPK programme and support enzyme and metabolic functions.

4. Recommended application framework

Primary timing: late reproductive development, fruit sizing and maturation. Final dose and frequency must be established by an agronomist and aligned with the registered label in the country of use.

Application route	Professional starting framework	Operational notes
Fertigation	2-5 kg/ha per application	Prepare a mother solution and inject after complete dissolution.
Foliar	0.2-0.5% solution	Use only where label permits; avoid high temperature and sensitive stages.

These rates are technical starting points, not a substitute for the approved commercial label or local registration.

5. Mixing and water-management procedure

- Fill the mixing tank to at least one-half with clean water and start agitation.
- Add product slowly; allow full dispersion or dissolution before adding further components.
- Maintain agitation during preparation and application.
- Perform a jar test before combining with calcium-rich, strongly acidic/alkaline or pesticide products.
- Avoid mixing concentrated stock solutions unless chemical compatibility is confirmed.
- Flush fertigation equipment after use and prevent dried residues in filters and emitters.

6. Quality-control characteristics

Control item	Release expectation
Identity / appearance	Water-soluble crystalline powder
Declared nutrients	Conformity with guaranteed analysis and approved tolerance
Homogeneity	Uniform product without abnormal separation or foreign matter
Solubility / dispersibility	Suitable for intended application route
Packaging integrity	Sealed, correctly labelled and traceable by batch
Retained sample	Maintained under the manufacturer quality system

7. Storage, handling and shelf-life control

- Store in the original, tightly closed package in a cool, dry and ventilated place.
- Protect from direct sunlight, frost, excessive heat, moisture and contamination.
- Keep away from food, feed, children and unauthorised persons.
- Use first-in/first-out stock rotation and inspect packaging before dispatch.
- Shelf life and expiry shall follow the approved label and batch documentation.

8. Regulatory and technical notice

This TDS is prepared from the CEON catalogue declaration for technical communication. Product registration, market label, SDS classification, transport status and claims must be confirmed for the destination country before commercial placement. Agronomic response varies with crop, climate, soil, water and management.