

TECHNICAL DATA SHEET

POWERDRIP NPK SERIES

Document code	CEON-049-TDS-R05
Product category	Fully water-soluble blended NPK fertiliser series with trace elements
Physical form	Crystalline/powder water-soluble fertiliser
Packaging	Commercial packs according to market specification
Catalogue reference	CEON Product Catalogue, page 62

1. Product overview

A family of fully water-soluble NPK formulations covering balanced, high-nitrogen, high-phosphorus and high-potassium crop stages. Each grade includes a controlled trace-element package for complete fertigation nutrition.

2. Guaranteed analysis

Declared component	Guaranteed content
Available grades	20-20-20+TE; 19-19-19+TE; 18-18-18+TE; 15-15-15+TE
Typical trace elements	Zn, B, Cu, Fe, Mn and Mo; exact values depend on grade

3. Agronomic positioning

- One series for vegetative, rooting, flowering and fruit-filling stages
- Fully water-soluble for drip irrigation and stock-tank use
- Balanced trace-element support across grades
- Allows stage-specific nutrient management
- Suitable for greenhouse, open-field and soilless production programmes

4. Recommended application framework

Application route / crop group	Recommended framework
Fertigation	Typically 1-5 kg/ha/day or 5-25 kg/ha/week according to crop and irrigation schedule
Foliar	0.2-0.5% solution where label and crop tolerance permit
Balanced grades	General growth and maintenance
High-P / high-K grades	Rooting, flowering, fruit set and quality stages

Application rates are programme guidance derived from the catalogue and agronomic practice. The approved destination-market label, crop sensitivity, soil/leaf analysis, irrigation volume and local regulation take precedence.

5. Mixing and application procedure

- Fill the tank with 30-50% clean water and start agitation.
- Pre-dissolve the measured product in a separate clean container where practical.
- Add the solution slowly to the main tank while maintaining agitation.
- Add compatible plant-protection products only after a jar test and according to their label order.
- Complete filling with water, maintain agitation and use the mixture promptly.
- Flush fertigation lines and spray equipment with clean water after use.

6. Compatibility and precautions

Select the exact grade according to water analysis, soil/substrate status and crop stage. Do not mix concentrated phosphate grades directly with calcium fertilisers.

- Do not mix concentrated fertiliser solutions together unless compatibility is confirmed.
- A small-scale jar test is required before new combinations.
- Avoid application during extreme heat, frost, drought stress or intense sunlight.
- Use clean, low-sediment water and appropriate filtration in drip systems.

7. Storage and shelf-life controls

- Store sealed in the original package in a cool, dry, ventilated place.
- Protect from direct sunlight, moisture, frost and excessive heat.
- Keep away from food, feed, children and unauthorised persons.
- Reseal opened packages immediately to avoid caking or contamination.
- Shelf life is governed by the approved commercial label and batch release documentation.

8. Quality control and release

Each batch should be released against an approved specification using validated analytical methods appropriate to the declared nutrient. Identity, appearance, solubility/moisture where relevant, nutrient content, packaging integrity, lot coding and traceability should be verified before dispatch.

9. Regulatory statement

This TDS is a technical and commercial support document. It is not a substitute for the legally approved product label, registration dossier, destination-country fertiliser regulation, batch COA or final SDS classification. Claims must be adapted to the authorised market.