

# TECHNICAL DATA SHEET

## BLISS

High-Analysis, Fully Water-Soluble NPK Fertilizer

### PRODUCT DESCRIPTION

Bliss is a premium-quality, high-analysis, fully water-soluble NPK fertilizer formulated to support vigorous crop growth during critical development stages. It provides a powerful nitrogen boost combined with essential phosphorus and potassium to promote strong root development, enhanced vegetative growth, and improved overall crop performance.

Designed for modern agricultural practices, Bliss dissolves instantly without residue, making it ideal for fertigation, foliar application, and hydroponic systems.

### KEY ADVANTAGES & BENEFITS

- **High Nutrient Concentration** – Supplies a balanced and readily available source of nitrogen, phosphorus, and potassium for rapid plant uptake.
- **Fully Water-Soluble** – Dissolves instantly with no residue, preventing clogging in drip irrigation and fertigation systems.
- **Multiple Nitrogen Forms** – Contains nitrate, ammoniacal, and urea nitrogen for immediate, short-term, and sustained nutrient availability.
- **Chloride-Free / Low Salt Index** – Safe for all crops, including chloride-sensitive varieties; helps reduce soil salinity risk.
- **Enhanced Efficiency** – Optimized nutrient delivery improves fertilizer use efficiency and reduces losses.
- **Versatile Application** – Suitable for fertigation, foliar spray, drip irrigation, and hydroponic cultivation.

### RECOMMENDED CROPS

- Field crops
- Vegetables
- Fruits
- Flowers
- Ornamentals

**Best Use:** Early to active growth stages where nitrogen demand is high.

## GUARANTEED ANALYSIS

| Nutrient                         | Content |
|----------------------------------|---------|
| Total Nitrogen (N)               | 37.0%   |
| – Nitrate Nitrogen               | 5.0%    |
| – Ammoniacal Nitrogen            | 16.0%   |
| – Urea Nitrogen                  | 16.0%   |
| Available Phosphate ( $P_2O_5$ ) | 37.0%   |
| Soluble Potash ( $K_2O$ )        | 3.0%    |
| Chlorine (Cl)                    | < 0.1%  |

## PHYSICAL & CHEMICAL PROPERTIES

- **Appearance:** White crystalline powder
- **Solubility:** Completely soluble in water
- **Bulk Density:** ~1.05 g/cm<sup>3</sup>
- **pH (1% solution):** 5.5 – 6.0

## APPLICATION GUIDELINES

### Fertigation

- **Dosage:** 5 – 10 kg per hectare per application
- **Method:** Dissolve completely in irrigation water
- **Frequency:** Depends on crop type, growth stage, and soil conditions (typically every 2–4 weeks)

### Foliar Application

- **Dosage:** 1 – 3 g per liter of water
- **Application Time:** Early morning or late afternoon for maximum absorption

*Always conduct a small jar test before large-scale mixing. Soil and tissue analysis is recommended for precise nutrient management.*

## COMPATIBILITY

- Compatible with most pesticides and micronutrients (jar test recommended)

- **Incompatible with:** Calcium nitrate and sulfate-based fertilizers (risk of precipitation and clogging)

## **SAFETY & HANDLING**

- Keep out of reach of children and animals
- Avoid contact with eyes and skin
- Use appropriate personal protective equipment (gloves, mask, goggles) during handling
- Do not ingest

## **FIRST AID MEASURES**

- **Inhalation:** Move to fresh air
- **Eye Contact:** Rinse immediately with clean water for several minutes; remove contact lenses if present; seek medical attention
- **Skin Contact:** Wash thoroughly with soap and water
- **Ingestion:** Rinse mouth; do NOT induce vomiting; seek medical advice immediately

## **STORAGE CONDITIONS**

- Store in a cool, dry, well-ventilated area
- Keep packaging tightly closed and protected from moisture

## **PACKAGING**

- Available in **5 kg** and **25 kg** bags