

PRODUCT SPECIFICATION · FERTILIZERS

Di-ammonium Phosphate (DAP)

18-46-0
N-P₂O₅-K₂O

Global standard 18-46-0 DAP: a highly water-soluble, granular, phosphate-rich fertilizer used for root development, early plant growth and better yields.

Nitrogen (ammoniacal) 18%	Phosphate (P ₂ O ₅) 46%	Moisture 1.0-1.5% max.	pH (1% solution) 7.5-8.0
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Core chemical and physical specifications

PARAMETER	SPECIFICATION
Chemical formula	(NH ₄) ₂ HPO ₄
Total nitrogen (ammoniacal)	18%
Total phosphorus (P ₂ O ₅)	46%
Water-soluble phosphate	Minimum 41% (often up to 46%)
Moisture content	Maximum 1.0% to 1.5%
pH value (1% solution)	7.5 to 8.0 (mildly alkaline)
Physical appearance	Granular (usually dark brown, grey or white, depending on the source)

Importance in Bangladeshi agriculture

- Nutrient source: provides both phosphorus and early-stage nitrogen for crops such as Boro rice, wheat and vegetables.
- Root and stem growth: stimulates rapid root growth and strengthens the plant’s structure, helping prevent lodging (tipping over).
- Soil adaptability: its alkaline nature suits the low-pH and slightly acidic soils common in many regions of Bangladesh.