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Di-ammonium Phosphate (DAP)



SPECIFICATION:

Di-ammonium Phosphate (DAP) : global standard 18-46-0 grade, denoting 18% Nitrogen and 46% Phosphate (P_2O_5). It is a highly water-soluble, granular, phosphate-rich chemical fertilizer used extensively for crop root development, early plant growth, and improving agricultural yields across the country. Core Chemical & Physical Specifications
Chemical Formula: $(NH_4)_2HPO_4$ Total Nitrogen (Ammoniacal): 18% Total Phosphorus (P_2O_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 necessary Phosphorus and early-stage Nitrogen for crops like Boro rice, wheat, and vegetables.
Root & Stem Growth: Stimulates rapid root system growth and strengthens the plant's structural framework, preventing lodging (tipping over).
Soil Adaptability: Its alkaline nature makes it excellent for correcting and adapting to low-pH or slightly acidic soils common in many regions of Bangladesh .