



ENDEAVOUR INDUSTRIES LTD.

Technical Data Sheet Urea Phosphate (17:44:00)

Urea phosphate is a fertilizer having NPK formula 17-44-0. It is soluble in water, and produces a strongly acidic solution. Chemically, the urea phosphate compound is made of an equimolar mix of urea and phosphoric acid crystallizing together, and freely disassociating when dissolving in water.

Sr. No	Description	Standard	Result
01	Moisture percentage by weight,	0.5	0.5
02	Total Nitrogen percentage by weight minimum	17	17.01
03	Water Soluble Phosphate (P ₂ O ₅) percentage by weight minimum	44	44.03
04	Matter insoluble in water percent by Weight, maximum	0.5	0.5

Application:

Urea phosphate is sometimes added to blends which contain calcium nitrate, magnesium nitrate and potassium nitrate to produce water-soluble formulas such as 15-5-15 and 13-2-20. The acidity of urea phosphate allows Ca, Mg and P to co-exist in solution. Under less acidic conditions, there would be precipitation of Ca-Mg phosphates. Urea phosphate is often used in drip irrigation to clean pipe systems.