



# Alex Stewart International

## ANALYSIS REPORT Ref. No. UJ25286-2

**ORIGINAL**

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This is to certify that, at the request of Messrs. **OJSC "Hydrometallurgical Plant"** we have performed laboratory analysis of the under mentioned commodity:

**Commodity** : DI-AMMONIUM PHOSPHATE  
**Date of laboratory analysis** : 14.06.2019  
**Batch number** : 09  
**Production date** : January 2019

### LABORATORY ANALYSIS RESULTS

Laboratory analyses were performed for provided sample according to requirements and following results were obtained:

PARAMETER	TEST METHOD	TEST RESULTS
Mass share of Di-ammonium phosphate as $[(NH_4)_2HPO_4]$ , %	GOST 3771	99.37
Mass share of phosphates as $P_2O_5$ , %	GOST 20851.2	53.70
Mass share of ammonium nitrogen $(NH_4)$ , %	GOST 30181.8	21.20
Mass share of potassium as $K_2O$ , %	GOST 20851.2	0.0014
Mass share of water insoluble matters, %	GOST 3771	< 0.001
Mass share of water, %	GOST 20851.4	0.24
Mass share of fluorides (F), %	GOST 24596.7	< 0.001
Mass share of arsenic (As), %	Inductively coupled plasma emission spectroscopy	<0.0003
Mass share of lead (Pb), %	Inductively coupled plasma emission spectroscopy	<0.0003
Mass share of cadmium (Cd), %	Inductively coupled plasma emission spectroscopy	<0.00005
Mass share of mercury (Hg), %	Atomic absorption analysis	<0.00001
Mass share of chromium (Cr), mg/kg	Inductively coupled plasma emission spectroscopy	<0.0001
Mass share of selenium (Se), mg/kg	Inductively coupled plasma emission spectroscopy	<0.0003
Mass share of sulphur (S), mg/kg	Inductively coupled plasma emission spectroscopy	0.019
Rate of activity of hydrogen ions in 0.1% solution, pH	P.4.13 Technical requirements	7.76

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Mass share of particles, % <ul style="list-style-type: none"><li>- Above 1 mm</li><li>- 0.63 – 1 mm</li><li>- 0.4 – 0.63 mm</li><li>- 0.25 – 0.4 mm</li><li>- 0.16 – 0.25 mm</li><li>- 0.1 – 0.16 mm</li><li>- Below 0.1 mm</li></ul>	Gravimetric analysis	9.00 29.01 26.29 22.80 8.64 3.03 1.23
Turbidity 20 %, NTU	P.4.13 Technical requirements	2.1
Solubility at 20 °C, g/dm <sup>3</sup>	Gravimetric analysis	675



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