



# Alex Stewart International

**ANALYSIS REPORT**  
**Ref. No. UJ25286-1**  
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**ORIGINAL**

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

**Commodity** : MONO AMMONIUM PHOSPHATE  
**Date of laboratory analysis** : 14.06.2019  
**Batch number** : 87  
**Production date** : December 2018

## **LABORATORY ANALYSIS RESULTS**

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

<b>PARAMETER</b>	<b>TEST METHOD</b>	<b>TEST RESULTS</b>
Mass share of Monoammonium phosphate (as $\text{NH}_4\text{H}_2\text{PO}_4$ ), %	GOST 3771	99.64
Mass share of phosphates as $\text{P}_2\text{O}_5$ , %	GOST 20851.2	62.20
Mass share of ammonium nitrogen ( $\text{NH}_4$ ), %	GOST 30181.8	12.14
Mass share of potassium as $\text{K}_2\text{O}$ , %	GOST 20851.2	0.042
Mass share of water insoluble matters, %	GOST 3771	< 0.001
Mass share of water, %	GOST 20851.4	0.037
Mass share of fluorides (F), %	GOST 24596.7	0.0078
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	0.010

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Rate of activity of hydrogen ions in 0.1% solution, pH	P.4.13 Technical requirements	4.37
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	0.6 9.4 20.15 33.35 23.04 9.23 4.23
Turbidity 20 %, NTU	P.4.13 Technical requirements	1.38
Solubility at 20 °C, g/dm <sup>3</sup>	Gravimetric analysis	382

**24<sup>th</sup> June, 2019**

**ALEX STEWART INTERNATIONAL**

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