## Novokuibyshevsk Petrochemical Company Joint Stock Company Russian Federation, Samara region, Novokuibyshevsk town

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Certificate of Quality Management System for compliance with the requirements of ISO 9001: 2015 No. FM 696147.

The certificate is valid through: October 17, 2021

## QUALITY CERTIFICATE No. ALUMINIUM CHLORIDE Industry Standard 91051486-012-2012 Grade A

Date of manufacture:	Product vessel No
Sampling date:	Net weight, kg
Testing date:	Tank car no.

The tests have been conducted in the Test Center - Quality Control Department of NPC JSC

Indicator name	Normal value	Measured value	Test method
1 Appearance	Slightly yellow or grey liquid, free of mechanical impurities	Slightly yellow liquid, free of mechanical impurities	Industry Standard 91051486-0122012 p. 7.3
2 Mass fraction of the basic substance expressed as AlCl <sub>3</sub> , %	17–27		Industry Standard 91051486-0122012 p. 7.4
3 Mass fraction of free hydrochloric acid, %	no more than 0.65		Industry Standard 91051486-0122012 p. 7.5
4 Organic impurities content, g/dm <sup>3</sup>	no more than 0.035		Industry Standard 91051486-0122012 p. 7.6
5 Suspended substances content, g/dm <sup>3</sup>	no more than 0.5	none	Industry Standard 91051486-0122012 p. 7.7

The Product complies v	with the requirements of In	ndustry Standard 91	051486-012-20	12, Grade A	
	Specialist				
Stamp here	Date of issue of certifica	te:	(signature)		(surname, initials)