kemira

Where water
meets chemistry ™

Technical Data Sheet
2018-12-19

ALUMINUM SULFATE DRY

Aluminium Sulphate, iron free aluminum sulfate, is a crushed, easy to dissolve, coagulant that can be used for water and wastewater clarification as well as many papermaking and other industrial applications. Aluminium Sulphate is based on active trivalent aluminum compounds. Aluminium Sulphate is especially suitable for potable water treatment and paper sizing.

Product specification

Appearance	White-greyish
Aluminum (Al^{3+})	9,0 ± 0,1 %
Al_2O_3	17,0 ± 0,2 %
Free acid (H_2SO_4)	<0 %
Bulk density	1000 ± 100 kg/m^3

Typical analysis

Active substance	Approx. 3,3 mol/kg
Iron (Fe_{tot})	<0,01 %
Sulfate $(SO_4)^{2-}$	47 ± 2 %
Chloride (Cl^-)	<0,01 %
Water insoluble	<0,1 %
Particle size	0-50 mm *

**Ask your local sales representative for available particle sizes.*

Quality

Aluminium Sulphate is a coagulant that meets the European standard “Chemicals used for treatment of water intended for human consumption” EN 878:2016 type 1. Aluminium Sulphate, that meets the AWWA specifications, is available on demand.

Preparation of solutions and dosage

Aluminium Sulphate is especially suited for storage in a silo, hence it can be fed to the dosing point in dry form or as a solution via a continous dissolver.
Aluminium Sulphate is recommended to be dissoled into a solution of 5-20 % if prepared continuously and 5-40 % if prepared batchwise.

Storage

Aluminium Sulphate is slightliy hygroscopic and should be stored in dry surroundings. The product is stable at least one year when stored in bags.
When Aluminium Sulphate is dissolved the same storage recommendations as for KEMIRA ALS are applied.

Safe handling

Aluminium Sulphate is irritating to eyes and respiratory system. If dust is produced use suitable protection.

The handling of any chemical requires care. Anyone responsible for using or handling Aluminium Sulphate should familiarise themselves with the full safety precautions outlined in our Safety Data Sheet.

Packing and transportation

Aluminium Sulphate is available in bulk, in 25 kg bags and also in bigbags.

Kemira makes this information available as an accomodation to its customers and it is intended to be solely a guide in customer´s evaluation of the products. You must test our products, to determine if they are suitable for your intended uses and applications, as well as from the health, safety and environmental standpoint. You must also instruct employees, agents, contractors, customers or any third party which may be exposed to the products about all applicable precautions. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. You assume full liability and responsibility for compliance with all information and precautions, and with all laws and statutes, ordinances and regulations of any governmental authority applicable to the processing, transportation, delivery, unloading, discharge, storage, handling, sale and use of each product. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use.

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