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Technical Data Sheet
2018-10-09

Polyaluminum Chloride Solution

Polyaluminum Chloride Solution, a high basicity polyaluminum chloride, is an effective coagulant for treatment of both potable and wastewater. Polyaluminum Chloride Solution is based on highly charged aluminum, enabling less of it to do more. This results in lower dosages and therefore reduces sludge volumes and pH adjustment demands.

Product specification

| | |
|--------------------------------|-------------------------------|
| Appearance | Clear liquid |
| Aluminum (Al ³⁺) | 4,5 ± 0,2 % |
| Al ₂ O ₃ | 8,5 ± 0,4 % |
| Basicity | 65 ± 5 % |
| Density (20°C) | 1,20 ± 0,02 g/cm ³ |

Typical analysis

| | |
|--|--------------------|
| Active substance | Approx. 1,7 mol/kg |
| Iron (Fe _{tot}) | <0,01 % |
| Chloride (Cl ⁻) | 10 ± 1 |
| Sulfate (SO ₄ ²⁻) | 1,5 ± 0,3 % |
| Viscosity (20°C) | 10 ± 5 mPas |
| pH (20°C) | 3 ± 0,5 |
| Start of crystallization | -10°C |

Quality

Polyaluminum Chloride Solution is a coagulant that meets the European standard "Chemicals used for treatment of water intended for human consumption" EN 17034 type 1.

Dosing

Dosing by diaphragm metering pumps of non-corrosive material is suitable. Polyaluminum Chloride Solution should be dosed without dilution.

Storage

Storage tanks and piping should be constructed of suitable non-corrosive material such as fiberglass or cross-linked polyethylene. Polyaluminum Chloride Solution is mildly corrosive and will attack most metals over a period of time. Polyaluminum Chloride Solution has a recommended shelf life of 24 months. As with any chemical, it is recommended to clean the storage tank every year. The first delivery of any product should be made into a clean storage facility to ensure optimum performance and storage.

If outside storage, tank and piping should be insulated and heat-traced.

Safe handling

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

Delivery

Transport by road: UN 3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (polyaluminum chloride), class 8, PG III, (E).

Please check our Safety Data Sheet for other means of transportation.

MD makes this information available as an accommodation 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.