



# FERRO-ALUMINIO, C.A.

RIF. J-00100989-2

Address: Morón Coro National Highway, Mixed Companies Area.  
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DATA SHEET OF ALUMINUM SULFATE TYPE A

<b>CODE: 05-CCCC-001</b>	<b>VERSION: 10</b>	<b>DATE OF ISSUE: FEBRUARY, 2022</b>
<p><b>Aluminum Sulfate Type A</b>, is an inorganic salt with the molecular formula <math>Al_2(SO_4)_3 \cdot 14.3H_2O</math>. It is used as a coagulant/flocculant in wastewater treatment and for human consumption. In the acid process of paper manufacturing it is used to precipitate rosin and maintain a suitable pH. In both fields, water treatment and papermaking, optimal results are achieved at a very low cost. Furthermore, our product complies with international standards for chemical products used in water treatment ANSI/AWWA B 403-09 and NSF.</p>		
<b>GUARANTEED SPECIFICATIONS</b>		
Appearance	White granular solid	
% $Al_2O_3$	17.0 Min.	
% $Fe_2O_3$	0.20 Max.	
% Insoluble	0.5 Max.	
% $H_2O$	<43	
% Basicity (free $Al_2O_3$ )	<0.60	
pH (1%)	3.0 – 3.8	
% Test sieve 4.76mm	100	
% Test sieve 2.00mm	≥ 90	
<b>DOSING/DISOLUTION</b>		
<p><b>ALUMINUM SULFATE (SALH) TYPE A</b>, is a salt that is easily soluble in water, solutions with concentrations of solid sulfate up to 55% can be prepared.</p> <p>For water treatment, it is suggested that the concentration does not exceed 5% of solid aluminum sulfate, in order to achieve a good dissolution rate. The residence time in the tank where the material is dissolved must not be less than 2.5 min. The maximum dose is 150 mg/L and residual aluminum in drinking water should not exceed 0.2 mg/L.</p>		
<b>PRESENTATION</b>		
<p>It is transported in polypropylene bags of 25 or 50Kg. At the request of the client it can be sent in big bags of 1000 kg.</p>		
<b>CERTIFICATION</b>		
<p><b>ALUMINUM SULFATE TYPE A</b>, has been evaluated by the National Sanitation Foundation (NSF), which granted its certification once the requirements were met.</p>		



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### METALS OF TOXICOLOGICAL CONCERN

In regard to impurities, the Venezuelan Standard FONDONORMA 1350:2006, establishes the following: "Aluminum sulfate should not contribute more than 10% of the maximum value allowed in the current national health standards for drinking water quality." Thus, for a maximum dose of 150 mg/liter of aluminum sulfate, there are the specifications shown in the following table, vs. the typical values of the impurities in the product.

Metal	10% of the Norm (mg/l)*	Typical values (mg/kg)**	Specification (mg/kg)***
Antimony	0.0006	0.02	4
Arsenic	0.001	2.8	6.67
Barium	0.07	0.3	466.67
Beryllium	0.0004	0.02	2.67
Cadmium	0.0003	0.02	2
Chromium	0.005	0.02	33.33
Copper	2	0.02	13,333.33
Lead	0.001	0.02	6.67
Mercury	0.0001	0.02	0.67
Selenium	0.001	0.02	6.67
Thallium	0.0002	0.02	1.33

\* Refers to 10% of the maximum value allowed in drinking water.

\*\* Typical values in SALH

\*\*\* Maximum value allowed in the product according to the specification of 150 mg/liter.