

Data Sheet of

# AluPAC

## Poly aluminium chloride

Product Description	Precautions	Physical / Chemical Analysis												
<p>AluPAC (poly aluminium chloride) is a solution in which the active substance is a polymerized aluminum complex of the gross formula <math>Al(OH)_{1,2}Cl_{1,8}</math>.</p> <p>It is a high purity product with high aluminum contents.</p> <p>AluPAC neutralizes the colloidal charge whereby compact flocks are formed. The flocks are precipitated from the water by sedimentation or flotation. The compact flocks provide fine drainage characteristics to the slurry.</p> <p>AluPAC is in compliance with EN 17034:2018, "Chemicals used for treatment of water intended for human consumption".</p>	<p>Storage tanks must be manufactured of glass-fiber reinforced polyester or PVC. Pumps, hoses etc. should be made of PVC and/or other acid and chloride resistant material.</p> <p>It is recommended that tanks/containers be cleaned once on a yearly basis.</p> <p><b>Read the supplier's user manual carefully before handling the product.</b></p>	<p>CAS No.: 1327-41-9</p> <p><math>Al^{+++}</math> : 9.0 W/w % <math>\pm</math> 0.5</p> <p><math>Cl^-</math> total: 22.0 W/w % <math>\pm</math> 1.0</p> <p>Appearance: yellowish liquid</p> <p>Bulk density (20 °C): 1.37 kg/l <math>\pm</math> 0.02</p> <p>pH (20 °C): 0 <math>\pm</math> 1</p> <p>Basicity: 40 % <math>\pm</math> 2</p> <p>Viscosity:</p> <table> <tr><td>30 °C</td><td>42 cP</td></tr> <tr><td>20 °C</td><td>55 cP</td></tr> <tr><td>10 °C</td><td>72 cP</td></tr> <tr><td>0 °C</td><td>102 cP</td></tr> <tr><td>-5 °C</td><td>242 cP</td></tr> <tr><td>-10 °C</td><td>338 cP</td></tr> </table>	30 °C	42 cP	20 °C	55 cP	10 °C	72 cP	0 °C	102 cP	-5 °C	242 cP	-10 °C	338 cP
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### Heavy metals:

Analyzed with ICP-MS by accredited laboratory. Mean content and max are for all measurements in 2018-2019.

	Mean content (mg/kg product)	Max. content (mg/kg product)	Detection limit (mg/kg)
Antimony (Sb)	0.0013	0.0035	0.0004
Arsenic (As)	0.026	0.088	0.0006
Lead (Pb)	0.025	0.073	0.0007
Beryllium (Be)	0.0075	0.0075	0.0004
Cadmium (Cd)	0.0004	0.0004	0.0004
Chrome (Cr)	0.15	0.21	0.0007
Cobalt (Co)	0.00075	0.0018	0.0004
Copper (Cu)	0.18	0.42	0.0007
Mercury (Hg)	0.0012	0.0026	0.00004
Nickel (Ni)	0.049	0.059	0.0007
Selenium (Se)	0.020	0.042	0.0007
Zinc (Zn)	1.0	1.5	0.004