



# Chemifloc Ltd.

Chemical Manufacturers.

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## Product Specification:

### Liquid Aluminium Sulphate

Parameter	Specification
Chemical Name	Aluminium Sulphate
Synonym	Alum
Chemical Formula	$\text{Al}_2(\text{SO}_4)_3 \cdot n\text{H}_2\text{O}$
CAS Number	10043-01-3
Appearance	Colourless Clear Liquid
Density at 15°C	1.312 - 1.328
Solubility @ -1°C	44.7 g/kg Al
Crystallization Point	-7°C
Chemical Properties	Acidic Solution
Aluminium Content	41 to 43.6 g Al/kg of Product
Alumina Content	7.75 to 8.25 as % $\text{Al}_2\text{O}_3$
pH	0.5 to 2.5
Free Acid	-0.5 to 1.0 as % w/w $\text{H}_2\text{SO}_4$
Insoluble Matter	Less than 23g/kg Al (0.12%)
Iron	Less than 1.6 g/kg Al (86.0 mg/L)
Arsenic (As)	Less than 14.0 mg/kg Al (0.75 mg/L)
Cadmium (Cd)	Less than 3.0 mg/kg Al (0.16 mg/L)
Chromium (Cr)	Less than 30.0 mg/kg Al (1.6 mg/L)
Mercury (Hg)	Less than 4.0 mg/kg Al (0.21 mg/L)
Nickel (Ni)	Less than 20.0 mg/kg Al (1.08 mg/L)
Lead (Pb)	Less than 40.0 mg/kg Al (2.16 mg/L)
Antimony (Sb)	Less than 20.0 mg/kg Al (1.08 mg/L)
Selenium (Se)	Less than 20.0 mg/kg Al (1.08 mg/L)

**This Specification conforms with the requirements of I.S.EN 878:2004 for Low Iron Type 1 grade of Aluminium Sulphate solution.**