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Product data

AluSAL

Sodium Aluminate 45 %

Product Description

AluSAL is a solution of $Na_2Al_2O_4$ with a Na_2O/Al_2O_3 Mole Ratio of typically 1.28.

AluSAL is an economical source of high reactive aluminium of high purity.

AluSAL is a transparent yellowish liquid.

AluSAL is produced by reacting alumina hydroxide with sodium hydroxide. Our unique manufacturing process produces a material that is free of precipitates. This means that AluSAL is stable over a wider range of handling and storage conditions.

Possibilities of application

Water treatment
Wastewater treatment
Paper production
Pigment industry
Production of catalysts
Pharmaceutical industry

Precautions

AluSAL can degrade aluminium, copper, brass, chromium and electroplated items. Pumps and the like should be made of artificial material, iron or steel.

AluSAL must not come in contact with water before processing because of risk of precipitation.

Never apply air pressure to delivery containers or storage tanks, because air in the product can make it precipitate.

Read the Material Safety Data Sheet (SDS) before using the product.

Physical / Chemical Analysis

CAS no.:	1302-42-7

Al / Na-content:
(analysed by fully automatic titration)

Al^{+++}:	13.2 $^{W}/_{W}$ % ± 0.5
Al_2O_3:	25.0 $^{W}/_{W}$ % ± 1.0
Na_2O:	19.5 $^{W}/_{W}$ % ± 1.0

Appearance:	Transparent
Bulk density (20 °C):	1.55 kg/l ± 0.02
pH (20 °C):	12.5 ±1

Heavy metals (≤):

Antimony (Sb)	0.00083 mg/kg
Arsenic (As)	0.0031 mg/kg
Cadmium(Cd)	0.00038 mg/kg
Chromium (Cr)	0.41 mg/kg
Cobalt (Co)	0.00039 mg/kg
Copper (Cu)	0.033 mg/kg
Lead (Pb)	0.30 mg/kg
Mercury (Hg)	0.00032 mg/kg
Nickel (Ni)	0.0032 mg/kg
Selenium (Se)	0.032 mg/kg
Zinc (Zn)	2.2 mg/kg

Viscosity:

80 °C	32 cP
50 °C	60 cP
25 °C	500 cP
16 °C	1.300 cP
8 °C	3.900 cP

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