15.09.2019

Product data

# AluSAL
## Sodium Aluminate 44%

### Product Description

44 % Sodium Aluminate also known as AluSAL is a solution of $Na_2Al_2O_4$ with a $Na_2O/Al_2O_3$ Mole Ratio of typically 1.3.

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

AluSAL is a transparent yellowish to red brown liquid. The colour can change because the product is without stabilizer.

AluSAL is produced by reacting alumina hydroxide with sodium hydroxide. Our unique manufacturing process produces a material that is free of precipitates.

The shelf life is 3 months. After that time precipitates can occur.

### 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 meet 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 Safety Data Sheet (SDS) before using the product.**

### Physical / Chemical Analysis

| | |
|---|---|
| CAS no.: | 1302-42-7 |

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

| | |
|---|---|
| $Al_2O_3$: | 24.0 ±0.5 $^{W}/_{W}$ % |
| $Na_2O$: | 19.5 ±0.5 $^{W}/_{W}$ % |

| | |
|---|---|
| Appearance: | Transparent |
| Bulk density (20 °C): | 1.53 ± 0.02 kg/l |
| pH (20 °C): | 13 ±1 |
| Iron (Fe) | <50 mg/kg |

Heavy metals (≤):

| | |
|---|---|
| Antimony (Sb) | 0.020 mg/kg |
| Arsenic (As) | 0.012 mg/kg |
| Cadmium(Cd) | 0.0027 mg/kg |
| Chromium (Cr) | 0.0072 mg/kg |
| Cobalt (Co) | 0.0011 mg/kg |
| Copper (Cu) | 0.33 mg/kg |
| Lead (Pb) | 0.035 mg/kg |
| Mercury (Hg) | 0.00056 mg/kg |
| Nickel (Ni) | 0.022 mg/kg |
| Selenium (Se) | 0.0035 mg/kg |
| Zinc (Zn) | 1.2 mg/kg |

Viscosity:

| | |
|---|---|
| 8 °C | 630 cP |
| 16 °C | 190 cP |
| 25 °C | 120 cP |
| 50 °C | 30 cP |
| 80 °C | 16 cP |

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