Product data

**AluSAL**
Sodium Aluminate 38%

**Product Description**

AluSAL is a solution of Na$_2$Al$_2$O$_4$ with a Na$_2$O/Al$_2$O$_3$ Mole Ratio of typically 1.51.

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

**Physical / Chemical Analysis**

- **CAS no.**: 1302-42-7
- **Al / Na-content**:
  - Al$^{+++}$: 10.5 w/w % ± 0.5
  - Al$_2$O$_3$: 19.9 w/w % ± 1.0
  - Na$_2$O: 18.3 w/w % ± 1.0
- **Appearance**: Transparent
- **Viscosity (25 °C)**: 130 cP
- **Viscosity (16 °C)**: 350 cP
- **Viscosity (8 °C)**: 730 cP
- **Viscosity (0 °C)**: 2,030 cP
- **Viscosity (-5 °C)**: 3,900 cP
- **Viscosity (-10 °C)**: 8,100 cP
- **Viscosity (-11 °C)**: 9,800 cP
- **pH (20 °C)**: 12.5 ±1
- **Heavy metals (≤)**:
  - Antimony (Sb): 0.0011 mg/kg
  - Arsenic (As): 0.0027 mg/kg
  - Cadmium (Cd): 0.00029 mg/kg
  - Chromium (Cr): 0.11 mg/kg
  - Cobalt (Co): 0.0030 mg/kg
  - Copper (Cu): 0.0034 mg/kg
  - Lead (Pb): 0.00069 mg/kg
  - Mercury (Hg): 0.00034 mg/kg
  - Nickel (Ni): 0.0041 mg/kg
  - Selenium (Se): 0.034 mg/kg
  - Zinc (Zn): 6.9 mg/kg

**Precautions**

AluSAL can degrade aluminium, copper, brass, chromium and electropolated 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 (MSDS) before using the product.**