

Product data

# AluSAL

## Sodium Aluminate 45 %

| Product Description   | Possibilities of application   | Physical / Chemical Analysis   |
|---|--|--|
| <p>AluSAL is a solution of <math>\text{Na}_2\text{Al}_2\text{O}_4</math> with a <math>\text{Na}_2\text{O}/\text{Al}_2\text{O}_3</math> Mole Ratio of typically 1.28.</p>  | <p>Water treatment<br/>Wastewater treatment<br/>Paper production<br/>Pigment industry<br/>Production of catalysts<br/>Pharmaceutical industry</p>              | <p>CAS no.: 1302-42-7</p> <p>Al / Na-content:<br/>(analysed by fully automatic titration)</p> <p><math>\text{Al}^{+++}</math>: 13.2 W/w % <math>\pm</math> 0.5</p> <p><math>\text{Al}_2\text{O}_3</math>: 25.0 W/w % <math>\pm</math> 1.0</p> <p><math>\text{Na}_2\text{O}</math>: 19.5 W/w % <math>\pm</math> 1.0</p>   |
| <p>AluSAL is an economical source of high reactive aluminium of high purity.</p>  | <p><b>Precautions</b></p>  | <p>Appearance: Transparent</p> <p>Bulk density (20 °C):<br/>1.55 kg/l <math>\pm</math> 0.02</p> <p>pH (20 °C): 12.5 <math>\pm</math> 1</p>   |
| <p>AluSAL is a transparent yellowish liquid.</p>  | <p>AluSAL can degrade aluminium, copper, brass, chromium and electroplated items. Pumps and the like should be made of artificial material, iron or steel.</p> | <p>Heavy metals (<math>\leq</math>):</p> <p>Antimony (Sb) 0.00083 mg/kg<br/>Arsenic (As) 0.0031 mg/kg<br/>Cadmium (Cd) 0.00038 mg/kg<br/>Chromium (Cr) 0.41 mg/kg<br/>Cobalt (Co) 0.00039 mg/kg<br/>Copper (Cu) 0.033 mg/kg<br/>Lead (Pb) 0.30 mg/kg<br/>Mercury (Hg) 0.00032 mg/kg<br/>Nickel (Ni) 0.0032 mg/kg<br/>Selenium (Se) 0.032 mg/kg<br/>Zinc (Zn) 2.2 mg/kg</p> |
| <p>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.</p> | <p>AluSAL must not come in contact with water before processing because of risk of precipitation.</p>  | <p>Viscosity:</p> <p>80 °C 32 cP<br/>50 °C 60 cP<br/>25 °C 500 cP<br/>16 °C 1.300 cP<br/>8 °C 3.900 cP</p>   |
| <p><b>Read the Material Safety Data Sheet (SDS) before using the product.</b></p>   | <p>Never apply air pressure to delivery containers or storage tanks, because air in the product can make it precipitate.</p>                                   |  |