Mip® ALU

Description:

Liquid, alkaline cleaning agent for production plants, tanks and equipment of steel, aluminium and stainless steel in the dairy and food industry

Product strengths:

- Strong cleaning efficacy against fat and protein
- Especially suitable for stacking cleaning of churns
- Suitable for aluminium and soft alloys
- Also suitable for hard process water

Properties

Concentrate	**Appearance:**	clear, colourless liquid *
	Storage stability:	0 - 40 °C
	Solubility:	at 20 °C miscible with water in any proportion
	Density:	1.18 - 1.23 g/cm³ (at 20 °C)
	P content:	0.04 %
	N content:	0.00 %
	COD:	< 10 mg O_2/g
	Flash point:	not applicable
Application solution	**pH:**	11.9 - 12.5 (1%, 20°C, deionized water)
	Conductivity:	4.6 mS/cm (1%, 20°C, deionized water)
	Titration:	2.4 - 2.8 ml * (50 ml 1 % solution; 0.5 n HCl, phenolphthalein)
	Foam characteristics:	non-foaming, suitable for CIP-systems

* Parameters subject to incoming goods control

Material compatibility: **Mip ALU** is, under the application conditions described below, compatible with

- **Metals** aluminium, steel, chrome nickel steel, stainless steel
- **Plastics and seals** commonly used plastics and seals in the dairy industry

  In view of the wide range of different plastics and seals, it is advisable to test their suitability in case of need.

Application

Mip ALU is especially suitable for CIP-cleaning of aluminium surfaces in milk collecting tankers, storage tanks and churns in the dairy industry.

- **Milk collecting tankers/ Storage tanks**

  Concentration: 0.5 - 1.0 %
  Temperature: 60 - 80 °C
  Contact time: 5 - 20 minutes

- **CIP-cleaning of churns**

  Concentration: 1.0 - 2.0 %
  Temperature: 60 - 80 °C
  Contact time: 5 - 20 minutes

  After cleaning rinse thoroughly with fresh water of drinking water quality.

Monitoring

Concentration determination

- **Titration**

  Receiving flask: 20 ml application solution
  Titration solution: 0.1 n hydrochloric acid (HCI)
  Indicator: Phenolphthalein
  Titration factor: 0.19

  Volume added 0.1 n HCI x 0.19 = (by wt.) % **Mip ALU**

- **Conductivity**

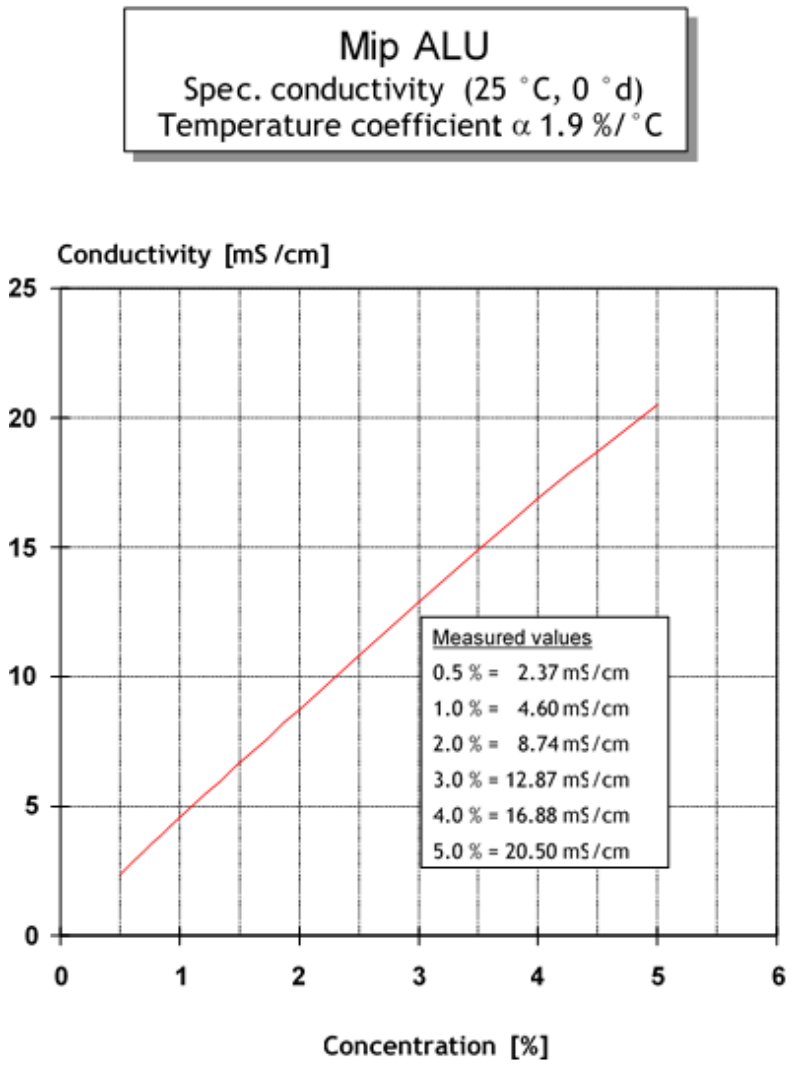
  Specific conductivity of **Mip ALU**

  Concentration control We recommend the use **of Elados EMP / EcoPro / EcoAdd** diaphragm pumps for metering and for control and phase separation the use of **LMIT 09** inductive conductivity meters.

  Please visit www.ecolab-engineering.com for more information.

Safety

The relevant hazards identifications of **Mip ALU** are given in the EC Safety Data Sheet. If any questions arise in this context please contact your Ecolab representative.



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