



TOPAZ LD1

Description: TOPAZ LD1 is a neutral cleaning agent to remove loose soils, for daily use in the food and beverage industry

Product strengths:

- Advanced foam properties
- Soft Metal Safe

Properties

Concentrate

Appearance: clear, colorless liquid *

Storage stability: 0 – 40 °C

Solubility: at 20 °C miscible with water in any proportion

Density: 1.018 – 1.098 g/cm³ (at 20 °C)

P content: 1.04 %

N content: 0.09 %

S content: 0.46 %

COD: 135 - 145 mg O₂/g

Flash point: Not applicable

Application solution

pH: 8.0 – 9.0
(5 %, 20 °C, deionized water)

Conductivity: 0.891 mS/cm
(1 %, 20 °C, deionized water)

Titration: 3.7 – 3.9 ml *
(100 ml; 1 % solution; 0.1 n HCl; methylorange)

* Parameters subject to incoming goods control

Material compatibility:

TOPAZ LD1 is, under the application conditions described below, compatible with

- **Metals** austenitic CrNi steels (quality at least DIN 1.4301 = AISI 304), Aluminium, AlMg3, brass, copper
- **Sealings** NBR, Viton A, FKM, ETPS, FPM, EPDM
- **Plastics** HD-PE, PP, rigid PVC
- **Others** ceramic surfaces

Application

TOPAZ LD1 is a foam cleaner, suitable for use in the entire food industry.

1. **Pre-rinse** with water for removal of rough soil
2. **Foam** all surfaces with a 2 - 5 % **TOPAZ LD1** solution
Contact time: 10 - 20 minutes
3. **Final rinse** with water at 40 – 60 °C, ensuring all foam and soil is completely removed

TOPAZ LD1 can also be used as a manual and soak cleaner especially for sensitive surfaces.

Dosage: 0.5 % – 3 % depending upon the degree of soiling

Temperature: Ambient to hand hot for manual cleaning (45 - 50 °C). The detergency of the product is enhanced at higher temperatures.

After cleaning, all food contact surfaces must be rinsed carefully with potable water.

Application System

For the foam application of **TOPAZ LD1** we recommend the **Ecolab Hybrid** range of open plant cleaning equipment which provides:

- Foam, disinfection and rinse functionality
- Stationary and mobile systems for full flexibility
- Space saving, robust, hygienic designs
- High operator safety
- Special equipment for fixed and automated cleaning systems (e.g. smoke chambers, fillers, conveyor belt cleaning)

Important indications!

- Effluent, containing chemicals, must only be discharged according to the local regulations
- Chemicals containing effluent must only be discharged into the biological treatment station after passing the neutralization- and buffer tank
- When discharging chemically polluted effluent, it is essential to pay specific attention to the bacteria toxicity of this water. This is especially important when dealing with biocide containing effluents and anaerobic sewage plants
- In case of doubt please seek advice from our technical service

Monitoring

Concentration determination

- **Titration**

Receiving flask:	100 ml application solution
Titration solution:	0.1 n HCl
Indicator:	Methyl orange
Titration factor:	0.263

Volume added in ml x 0.263 = (by wt.) % **TOPAZ LD1**

Safety

The relevant hazards identifications of **TOPAZ LD1** are given in the EC Safety Data Sheet. If any questions arise in this context, please contact your Ecolab representative.

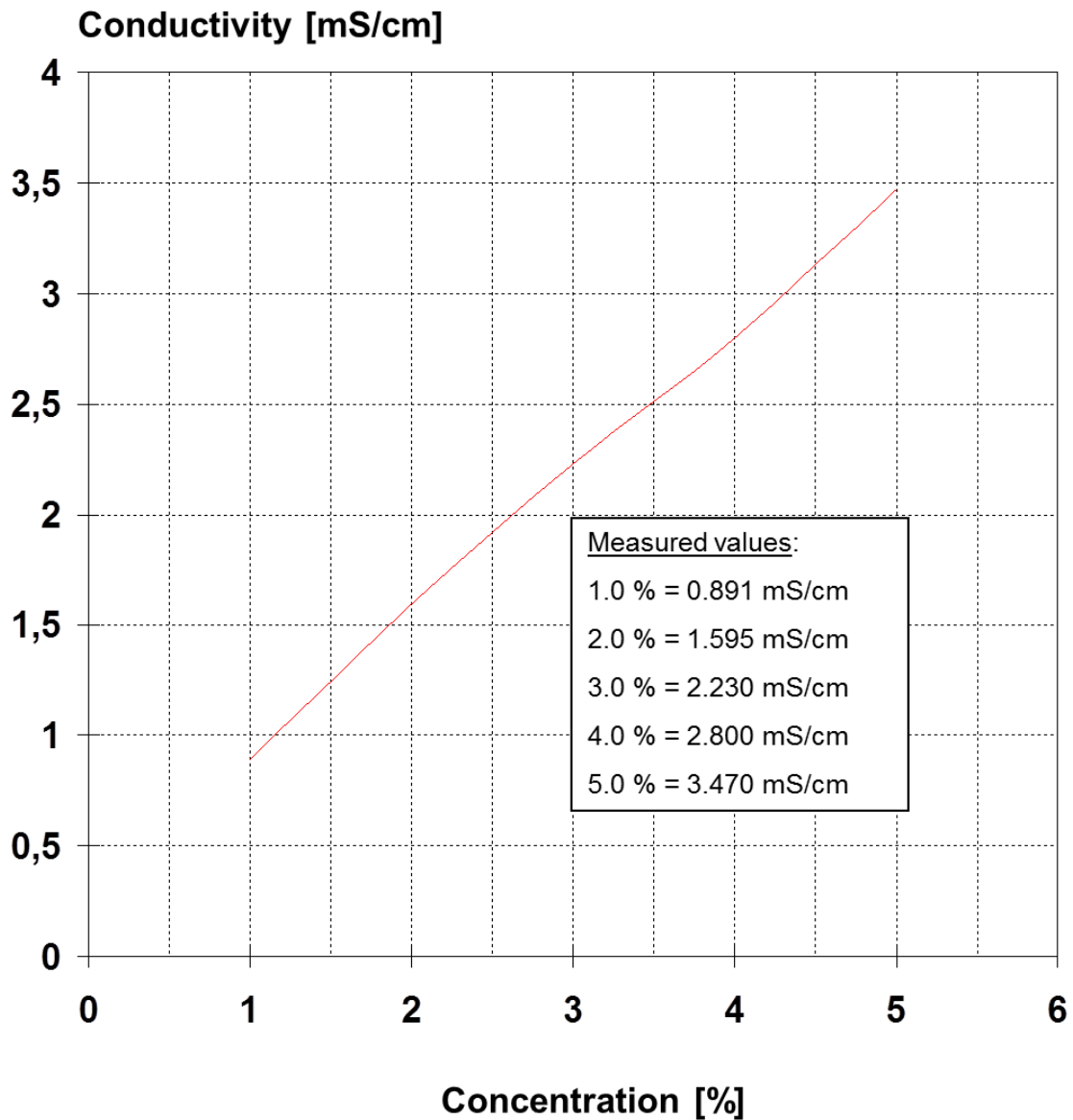
INDICATION!

During cleaning and sanitizing operations misting can occur. These aerosols contain water and the applied chemical. Inhalation of such aerosols must be avoided. Respiratory protection might be required depending on the specific use conditions during operation.

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Spec. Conductivity (20 °C, 0 °d)

Temperature coefficient: α 2.36 %/°C



The statements, information and data presented herein are believed to be accurate and reliable. The information describes the characteristic features of **TOPAZ LD1** in ordinary use but cannot be taken as a guarantee, express warranty or implied warranty for the suitability for a particular purpose and shall not extend mandatory warranty rights (if any). The specifications and performance may vary subject to the operational conditions. Since numerous parameters will influence product performance and applicability, this information does not exonerate the user from liability with respect to the suitability of the product and the appropriate safety measures to be taken. Moreover, a possible infringement of patent rights must be avoided at all times.

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