

# TOPAZ CL3

**Description:** TOPAZ CL3 is a chlorinated cleaning agent to remove fatty, greasy and protein residues with bleaching effect for daily use in the food and beverage industry

**Product strengths:**

- Advanced foam properties
- Soft Metal Safe
- Suitable for centralized foam systems in compliance with our maintenance recommendation

## Properties

<b>Concentrate</b>	<b>Appearance:</b>	clear, yellow liquid *
	<b>Storage stability:</b>	5 - 30 °C
	<b>Solubility:</b>	at 20 °C miscible with water in any proportion
	<b>Density:</b>	1.120 – 1.140 g/cm <sup>3</sup> (at 20 °C)
	<b>P content:</b>	0.32 %
	<b>N content:</b>	0.06 %
	<b>S content:</b>	0.47 %
	<b>COD:</b>	103 mg O <sub>2</sub> /g
<b>Application solution</b>	<b>Flash point:</b>	Not applicable
	<b>pH:</b>	11.2 – 11.6 (1 %, 20 °C, deionized water)
	<b>Conductivity:</b>	2.5 mS/cm (1 %, 20 °C, deionized water)
	<b>Titration:</b>	3.3 – 4.3 ml * (100 ml; 1 % solution; 0.1 n HCl; phenolphthalein)

\* Parameters subject to incoming goods control

## Material compatibility:

**TOPAZ CL3** is, under the application conditions described below, compatible with

- **Metals** austenitic CrNi steels (quality at least DIN 1.4301 = AISI 304), Aluminium, Galvanised steel, brass, copper
- **Plastics** HD-PE, PP, rigid PVC
- **Seals** FKM, FKM HF; EPDM
- **Others** ceramic surfaces

## Application

**TOPAZ CL3** is a universal 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 CL3** solution  
Contact time: 10 - 20 minutes
3. **Final rinse** with water, ensuring all foam and soil is completely removed

## Application System

For the application of **TOPAZ CL3** 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)

**TOPAZ CL3** can be used in pre-diluted system following special guidelines. **Topaz CL3** use solution is clear soluble over a wide range of water hardness, preventing scale formation in the pipes. Nevertheless, it is recommended to run a clear solubility test with customer's water.

Ensure the pH of the use solution is always above 11 to prevent any corrosion in the system.

For individual product recommendations please consult our Ecolab representative!

## 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**

Decomposition of existing chlorine by addition of a spatula point of sodium thiosulphate:

Receiving flask: 100 ml application solution

Titration solution: 0.1 n HCl

Indicator: Phenolphthalein

Titration factor: 0.263

Volume added in ml x 0.263 = (by wt.) % **TOPAZ CL3**

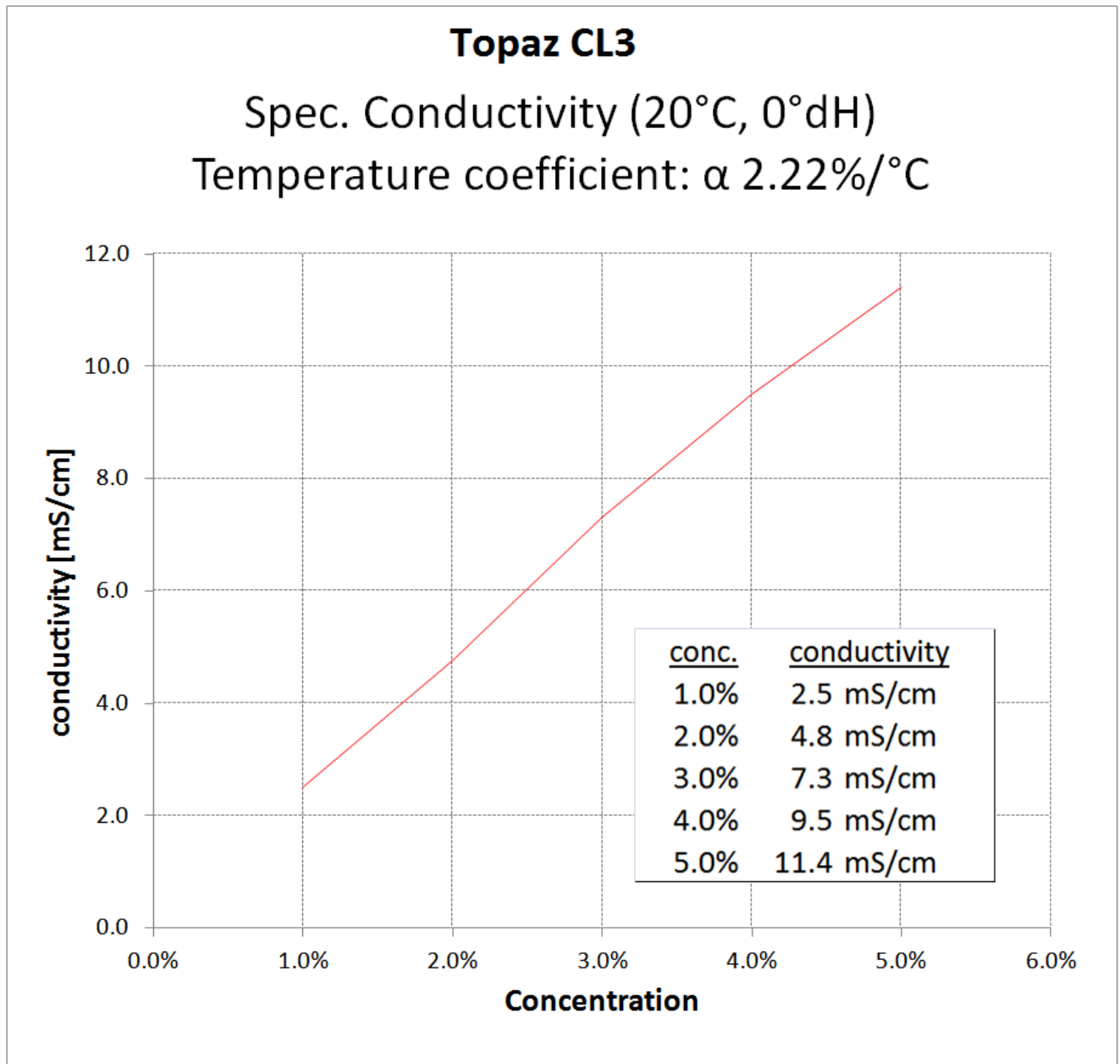
## Safety

The relevant hazards identifications of **TOPAZ CL3** 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.

## Conductivity



The statements, information and data presented herein are believed to be accurate and reliable. The information describes the characteristic features of **TOPAZ CL3** 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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