

P3-topax® 66

Description: Liquid, alkaline cleaning and disinfecting agent with available chlorine for foam cleaning in the food industry

Product strengths:

- excellent properties for the removal of greasy and protein residues
- reliable efficacy against microorganisms in the food industry; Efficacy against Salmonella typhimurium according to EN13697
- excellent bleaching efficacy against discolouration by blood and spices
- excellent removal of protein-/tanning compounds (organic beer scale ingredients)
- suitable for centralised foam systems in compliance with our maintenance recommendation

Properties

Concentrate	Appearance:	clear, yellowish liquid *
	Storage stability:	0 - 30 °C
	Solubility:	at 20 °C miscible with water in any proportion
	Density:	1.11 - 1.15 g/cm ³ (at 20 °C) *
	P content:	0.10 %
	N content:	0.17 %
	COD:	89 - 109 mg O ₂ /g
Application solution	Flash point:	not applicable
	pH:	11.6 - 12.0 (1 %, 20 °C, deionized water)
	Conductivity:	4.05 mS/cm (1 %, 25 °C, deionized water)
	Titration:	5.7 – 6.3 ml * (50 ml; 1 % solution; 0.1 n HCl; phenolphthalein)
	Foam characteristics:	strongly foaming, <u>not</u> suitable for CIP-systems

* Parameters subject to incoming goods control

Material compatibility: P3-topax 66 is, under the application conditions described below, compatible with

- **Metals** austenitic CrNi steels (quality at least DIN 1.4301 = AISI 304), zinc
- **Plastics** HD-PE, PP, rigid PVC
- **Seals** EPDM
- **Others** ceramic surfaces

Microbiology

EN 1276 Bactericidal Efficacy				
Pass criteria	Test organisms	Temperature	Clean conditions (0.03% BSA)	Dirty Conditions (0.3% BSA)
>5 log reduction	Bacteria - <i>Staphylococcus aureus</i> (ATCC 6538) - <i>Pseudomonas aeruginosa</i> (ATCC 15442) - <i>Escherichia coli</i> (ATCC 10536) - <i>Enterococcus hirae</i> (ATCC 10541)	10°C	2.0% 5 min	2.5% 5 min
		20°C	0.25% 5 min	1.5% 5 min

EN 1650 Fungicidal and Yeasticidal efficacy				
Pass criteria	Test organisms	Temperature	Clean conditions (0.03% BSA)	Dirty Conditions (0.3% BSA)
>4 log reduction	Yeast - <i>Candida albicans</i> (DSM 1386)	10°C	1.0% 5 min	2.5% 5 min
			0,5% 15 min	1.0% 15 min
	Yeast - <i>Candida albicans</i> (DSM 1386)	20°C	0.5% 5 min	2.0% 5 min
			0.25% 15 min	1.5% 15 min
Fungi - <i>Aspergillus brasiliensis</i> (DSM1988)	20°C	1.5% 15 min	2.0% 15 min	

EN 13697 Bactericidal, Yeasticidal and Fungicidal efficacy				
Pass criteria Bactericidal efficacy >4 log reduction Yeasticidal/ Fungicidal efficacy >3 log reduction	Test organisms	Temperature	Clean conditions (0.03% BSA)	Dirty Conditions (0.3% BSA)
	Bacteria - Staphylococcus aureus (DSM 799) - Enterococcus hirae (DSM 3320) - Escherichia coli (DSM 682) - Pseudomonas aeruginosa (DSM 939)	10°C	4.0% 5 min	4.0% 5 min
			2.0% 15 min	-
		20°C	1.0% 5 min	4.0% 5 min
			-	3.0% 15 min
	Yeasts - Candida albicans (DSM 1386)	10°C	1,0% 5 min	-
			0.5% 15 min	1.0% 15 min
		20°C	1.0% 5 min	3.0% 5 min
			0.5% 15 min	0.5% 15 min
	Fungi - <i>Aspergillus brasiliensis</i> (DSM1988)	20°C	3.0% 5 min	-
2.0% 15 min			3.0% 15 min	

Application

Typical applications are:

P3-topax 66 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 % **P3-topax 66** solution. Contact time: 10 - 20 minutes
3. **Final rinse** with water at ambient to 60 °C, ensuring all foam and soil is completely removed

Application System

For foam cleaning with **P3-topax 66**, 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)

P3-topax 66 can be used in pre-diluted system following special guidelines. **P3-topax 66** 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:	50 ml application solution
Titration solution:	0.5 n HCl
Indicator:	Phenolphthalein
Titration factor:	0.86

Volume added in ml x 0.86 = (by wt.) % **P3-topax 66**

- **Conductivity**

Specific conductivity of **P3-topax 66**

Safety

The relevant hazards identifications of **P3-topax 66** are given in the EC Safety Data Sheet. If any questions arise in this context please contact your Ecolab representative.

INDICATION!

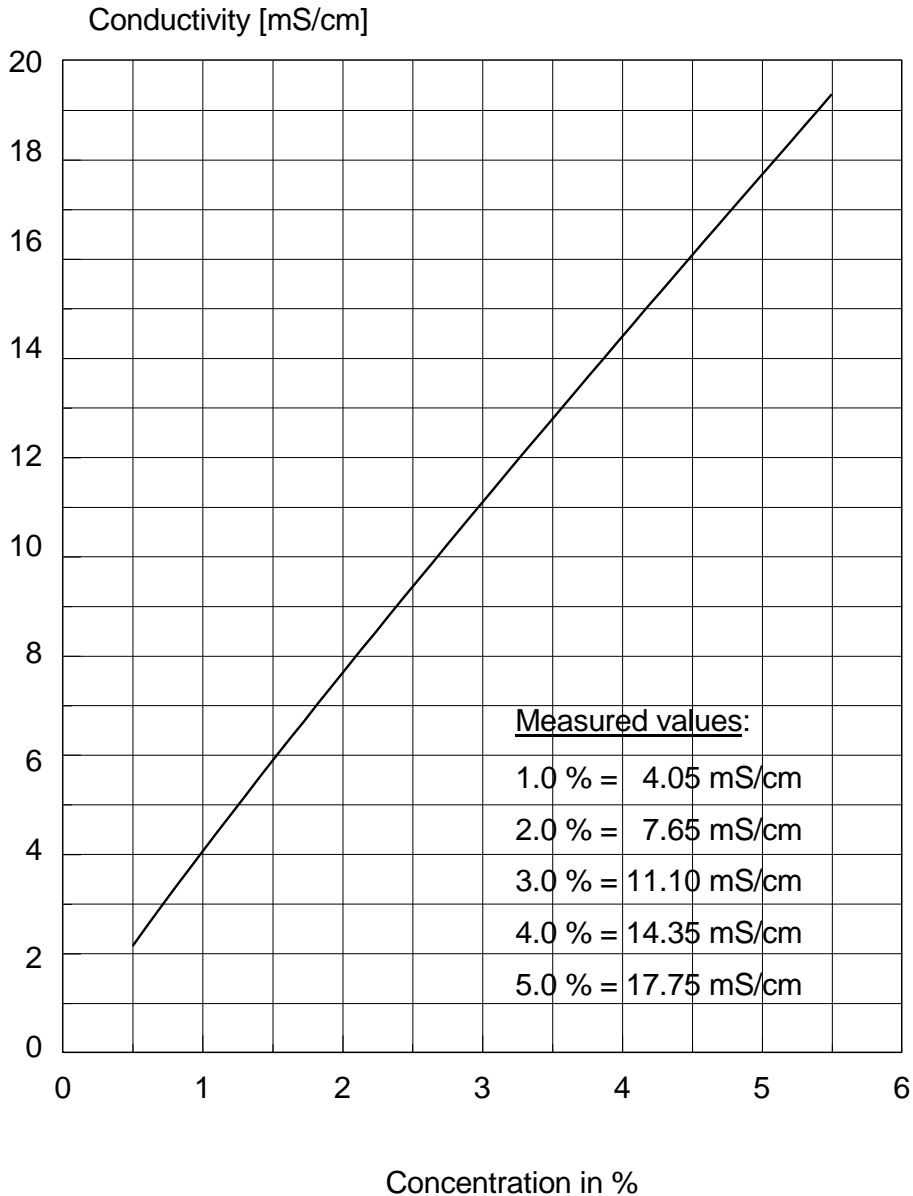
During cleaning and sanitizing operations misting can occur. These aerosols contain water and the applied chemical. Inhalation of such aerosols must be avoided. Respiratory protection might be required depending on the specific use conditions during operation.

Attention!

Don't mix with acids due to risk of hazardous gas creation.

P3-topax 66

Specific conductivity (25 °C, 0 °d)
Temperature coefficient: α : 2.09 % / °C



The statements, information and data presented herein are believed to be accurate and reliable. The information describes the characteristic features of **P3-topax 66** 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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