

# P3-steril

**Description:** Liquid, neutral cleaning and disinfecting agent for the food & beverage industry

**Product strengths:**

- excellent cleaning and disinfecting properties
- suitable for manual cleaning

## Properties

### Concentrate

<b>Appearance:</b>	clear liquid
<b>Storage stability:</b>	0 - 45 °C
<b>Solubility:</b>	at 20 °C miscible with water in any proportion
<b>Density:</b>	1.05 - 1.09 g/cm <sup>3</sup> (20°C)
<b>Refraction index n<sub>D</sub>20:</b>	1.3598 - 1.3638 *
<b>P content:</b>	2.53 %
<b>N content:</b>	0.13 %
<b>COD:</b>	190 - 230 mg O <sub>2</sub> /g
<b>Flash point:</b>	not applicable
<b>pH:</b>	8.5 to 9.5 (100%)
<b>Foam characteristics:</b>	foaming, not suitable for CIP-systems

\* Parameters subject to incoming goods control

**Material compatibility:** P3-steril is, under the application conditions described below, compatible with

- **Metals** austenitic CrNi steels (quality at least DIN 1.4301 = AISI 304), aluminium, fancy colored metals
- **Plastics** PE, PP, rigid PVC, PTFE, PVDF

# Microbiology

<b>Bactericidal Efficacy at 10 °C and 20 °C</b>				
<b>In accordance to DIN EN 1276 (suspension test)</b>				
<b>Test organism</b>	Contact time [min]	Concentration [%]	Log reduction factor	
			10 °C	20 °C
			dirty conditions (0.3% BSA)	dirty conditions (0.3% BSA)
<b>Gram-positive bacteria</b>				
Staphylococcus aureus (ATCC 6538)	5	0.5		>5
	30	0.5	>5	
Enterococcus hirae (ATCC 10541)	5	0.5		>5
	30	0.5	>5	
<b>Gram-negative bacteria</b>				
Escherichia coli (ATCC 10536)	5	1.0		>5
	30	1.0	>5	
Pseudomonas aeruginosa (ATCC 15442)	5	1.5		>5
	30	1.5	>5	

<b>Fungicidal Efficacy at 20 °C</b>				
<b>In accordance to DIN EN 1650 (suspension test)</b>				
<b>Test organism</b>	Contact time [min]	Concentration [%]	Log reduction factor	
			20 °C	
			dirty conditions (0.3% BSA)	
Candida albicans (ATCC 10231)	5	1.5	>4	
	15	0.75	>4	

<b>Bactericidal and Yeasticidal efficacy at 20 °C</b>			
<b>In accordance to DIN EN 13697 (surface test)</b>			
<b>Test organism</b>	Contact time [min]	Concentration [%]	Log reduction factor
			dirty conditions (0.3 % BSA)
<b>Gram-positive bacteria</b>			
Staphylococcus aureus (ATCC 6538)	5	1.5	>4
Enterococcus hirae (ATCC 10541)	5	1.5	>4
<b>Gram-negative bacteria</b>			
Escherichia coli (ATCC 10536)	5	1.5	>4
Pseudomonas aeruginosa (ATCC 15442)	5	1.5	>4

## Application

**P3-steril** is especially suitable for the manual cleaning of small pieces (immersion in **P3-steril** solution) and surfaces (application of **P3-steril** solution by brush, pad or scrubber).

- **Tanks, containers**

Temperature:  
Contact time:

Concentration **P3-steril**: 1 - 2 %  
(100 - 200 ml on 10 l water)  
cold  
30 minutes

- **Filler, stopper, small pieces**

Temperature:  
Contact time:

Concentration **P3-steril**: 1 - 2 %  
(100 - 200 ml on 10 l water)  
cold to 50 °C  
30 minutes

- **Boots, skirts, chain gloves in the meat industry**

Contact time:

Brushing/immersion: 1 - 2 % **P3-steril** solution  
(100 - 200 ml on 10 l water)  
Temperature: cold  
60 minutes

- **Packaging units, counters**

Concentration **P3-steril**: 1 - 2 %  
(100 - 200 ml on 10 l water)  
Temperature: 30 - 50 °C  
Contact time: 30 - 60 minutes

Final rinse with water of drinking water quality, ensuring all soil and product residues are completely removed.

## 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

## Safety

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

Use biocides safely. Always read the label and product information before use.

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

(Version August 2019)