

Stabicip OXI

Description: Liquid, slightly acidic cleaning booster, based on active oxygen for alkaline cleaning solutions in the food industry

Product strengths:

- environmentally-oriented alternative to chlorine products
- readily biodegradable
- quick and careful removal of tenacious soils
- excellent soil dispersion
- excellent foam-inhibiting properties > 40 °C
- phosphate- and nitrogen-free

Properties

Concentrate	Appearance:	clear, colourless liquid *
	Storage stability:	-10 to 40 °C
	Solubility:	at 20 °C miscible with water in any proportion
	Density:	1.08 - 1.12 g/cm ³ (20 °C)
	P content:	0.18 %
	N content:	0.00 %
	COD:	0 mg O ₂ /l ¹⁾
	Flash point:	not applicable
	Application solution	pH:
Conductivity:		0.3 mS/cm (1 %, 20 °C, deionized water)
Titration:		30 - 34 % H ₂ O ₂ *
Foam characteristics:		non foaming > 40 °C, suitable for CIP-systems

* Parameters subject to incoming goods control

1) Calculated value. The product is providing oxygen from itself. A practical detection is not possible.

Material compatibility: **Stabicip OXI** is, under the application conditions described below, compatible with

- **Metals** steel, chrome nickel steel
- **Plastics** all oxidation-resistant plastics, e. g. PE
- **Seals** all oxidation-resistant seals, e. g. Viton, EPDM

Application

Stabicip OXI is a product based on active oxygen as well as on foam-inhibiting cleaning boosters and water hardness stabilizers.

INDICATION!

Stabicip OXI is not intended to be used in closed systems as the release of oxygen will cause a pressure increase.

Addition of **Stabicip OXI** immediately before cleaning performance. Exceeding 45 °C, **Stabicip OXI** evolves its full efficacy by releasing oxygen. To achieve optimum results continuously, interval dosage is recommended.

For each cleaning procedure, it is advised to introduce **Stabicip OXI** into the CIP-cycle on the pressure side by means of an injection valve.

Breweries:

- **Brewhouse/
cold store**

Coppers, whirlpool, plate cooler

Concentration: 0.2 - 0.7 %
NaOH: 3.0 - 4.0 %
Temperature: 70 - 80 °C
Contact time: 30 - 50 minutes

- **Filter/bright beer
tank cellar**

Pipes, filters, yeast tanks

Concentration: 0.3 - 0.5 %
NaOH: 2.0 % *
Temperature: 70 - 80 °C
Contact time: 20 minutes

- **Bottles/cask
cellar**

Plate heater, kegs, casks

Concentration: 0.2 - 0.4 %
NaOH: 0.5 - 1.5 %
Temperature: 70 - 80 °C
Contact time: 20 minutes, i. e. according to
tact frequency

Fruit-juice industry:

- **Fruit squeezers**

Concentration: 1 - 2 %
NaOH: 2.0 %
Temperature: 70 - 80 °C
Contact time: 30 - 60 minutes

Dairies:

- **Plate pasteurizer, homogeniser, separator, heater, piping systems with stubborn solids as cocoa residues, burned proteins etc.**

Concentration:	0.5 %
NaOH:	3.0 %
Temperature:	70 - 80 °C
Contact time:	30 minutes

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

Monitoring

Concentration determination hydrogen peroxide

- **Titration** 100 ml application solution (20 °C) to be alloyed with 25 ml sulfuric acid (25 %), titration to slightly pink with 0.1 n potassium permanganat.

Volume added potassium permanganat (ml) x 0.0017
= % hydrogen peroxide (by wt. %)

If the hydrogen peroxide content is determined during alkaline cleaning with **Stabicip OXI**, titration is only reasonable immediately after sampling.

Deviations, resulting from the speed of oxygen release, may occur.

Concentration determination caustic soda solution in presence of **Stabicip OXI**

- **Titration** 50 ml application solution to be alloyed with a spatula tip of crystalline sodium thiosulphate (indicator protection), titration to colourless by 3 - 5 drops of phenolphthalein with 0.5 n HCl.

Volume added 0.5 n HCl (ml) x 0.04
= % caustic soda (by wt. %)

Concentration control

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

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

Safety

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

The statements, information and data presented herein are believed to be accurate and reliable. The information describes the characteristic features of **Stabicip OXI** 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 May 2022)