Product properties – Technical sheet

TENSOL NS	Item no.: 40 33 08

Areas of application

Tensol NS is a high concentrated additive for alkaline bath in bottle washing machines and alkaline washing processes.

Tensol NS is based on special agents to absorb the water hardness and to stabilize the alkalic bath. Special detergents are responsible for better wetting of the bottles and reduce the foam formation in the lye.

Tensol NS does not include any phosphates and is suitable for phosphate free bottle cleaning.

Tensol NS activates and increases the cleansing efficiency of the alkaline cleaning solution.

Tensol NS is suitable for PET-bottles.

Method of application

Add the product with an automatic dosing system (time relay, volumetric control) into the alkaline bathes of the bottle washing machine:

1. First preparation for bathes:
Concentration: 0.1 – 0.5 % (depending on the hardness of water)
Temperature: 60 – 90°C
Time: 15 – 30 minutes

Subsequent addition:
Subsequent dosing follows in the relation to the NaOH addition. Use the relation according to the first preparation.

After having used the product rinse thoroughly with drinking water to remove any possible residues!

Material compatibility

PVDF, PP, PE, PVC, Stainless Steel, Glass

Tensol NS must not be used on aluminium, Steel and Cast Iron. In addition, further material incompatibilities cannot be excluded. Therefore, test the product on an unimportant spot before its definite use.

Product properties – Technical sheet

Analysis of concentration	Photometry and surfactant determination		
Physical and chemical properties			
Aspect/colour	Clear	Tawny – Brownish	
Form	Liquid		
Odour	Weak Characteristic		
Foaming behaviour (see under conditions of application)	Not foaming		
Phosphates	n/a		
Density (20°C) g/cm³	1.060 – 1.080		
Concentration	**1 % in H_2O dest.**	**3 % in H_2O dest.**	**5 % in H_2O dest.**
pH value (1 %, 20°C)	3.6 – 4.2	n/a	n/a
Conductance (1 %, 20°C) mS/cm	n/a	n/a	n/a
Phenolphthalein alkalinity (ml)	3.3 ± 0.3 (1 % at 100 ml sample)		
m-Value (ml)	n/a		
Storage stability	- 5°C to + 30°C		
Remarks regarding biocides	**n/a**		
Hazardous products	Alcohols, C12-15-branched and linear, ethoxylated propoxylated / Cumol sulfonate		
Risk symbols			
	VOID		
Special remarks	Always close the container with the original closure, and store the items in a cool area without solar radiation. Product which was taken out of the container must never be poured back into the container. **Read in any case our safety data sheet before using the product!**		
Disposal	Disposal acc. to official regulations, in case of doubt contact the manufacturer.		

Please refer to our safety data sheets and our operating instructions with regard to precautionary measures, first aid measures and storage. The information given in the Sheet corresponds to the present state of our technical knowledge and experience. They do not constitute any guarantee; they are to be considered as basic information only. In particular they do not guarantee particular properties or the suitability for a concrete purpose. Because of the multitude of possible influences during the application of our products, the user has to make in any case the relevant tests and take the corresponding precautions. Any existing intellectual property rights are to be observed.