Product properties – Technical sheet

TENSOL DG	Item no.: 40 33 20

Areas of application

TENSOL DG is a high concentrated additive for alkaline bath in bottle washing machines and alkaline washing processes, free of detergents.

TENSOL DG is based on special agents to absorb the water hardness and to stabilize the alkalic bath.

TENSOL DG is especially developed to avoid to make the glass soggy into the lye bath of the bottle washing machine and to reduce the 'scuffing rings' on the glass bottles **(ANTISCUFFING)**.

TENSOL DG does not include any phosphates and is suitable for phosphate free bottle cleaning.

TENSOL DG activates and increases the cleansing efficiency of the alkaline cleaning solution.

In order to reduce the foam formation in the cleaning solution it is possible to add an antifoam agent, e.g. **WIGOL® ADDITIVE ES C 50.**

TENSOL DG is also 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: 5 – 90°C
Time: 10 – 20 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 DG must not be used on steel, cast iron and zinc.
In addition, further material incompatibilities cannot be excluded. Therefore, test the product on an unimportant spot before its definite use.

Product properties – Technical sheet

WIGOL® Cleaning and Disinfection

Analysis of concentration	according to the titration instructions		
Physical and chemical properties			
Aspect/colour	Slightly Cloudy	Light Brown – Brown	
Form	Liquid		
Odour	Characteristic		
Foaming behaviour (see under conditions of application)	Not Foaming		
Phosphates	n/a		
Density (20°C) g/cm³	1.145 – 1.165		
Concentration	**1 % in H_2O dest.**	**3 % in H_2O dest.**	**5 % in H_2O dest.**
pH value (1 %, 20°C)	2.1 – 2.7	n/a	n/a
Conductance (1 %, 20°C) mS/cm	2.40 – 2.90	6.0 – 7.0	10.0 – 12.0
Phenolphthalein alkalinity (ml)	3.0 ± 0.3 (1 % at 10 ml sample)		
m-Value (ml)	n/a		
Storage stability	- 5°C to + 30°C		
Remarks regarding biocides	**n/a**		
Hazardous products	Aminotris(methylenephosphonic acid)		
Risk symbols			
	WARNING		
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.