deconex®
22 HPF-x

Highly alkaline special cleaning concentrate

For automated application in laboratories and in animal husbandry. Free of phosphate and chlorine, liquid.

Application

deconex 22 HPF-x is used for universal application in laboratories to remove heavy contamination like dried or burnt-in analysis- and synthesis-residues from glassware and reusable laboratory material.

It can be applied in the following fields:
- chemical laboratories
- biological laboratories
- laboratories in the pharmaceutical industries
- dairy farming
- petrochemistry
- in animal husbandry

Properties

deconex 22 HPF-x is a highly alkaline cleaning concentrate, free of phosphate with excellent dirt-removing and dispersing properties. The product's high alkalinity enables the removal of dried or burnt-in contamination.

deconex 22 HPF-x is also highly suitable for the effective cleaning of animal cages.

The completely residue-free cleaning of laboratory glass and reusable material is an important prerequisite for the successful application of a cleaner in analytical-, synthesis- and cell culture laboratories.

deconex 22 HPF-x effectively removes:
- dried and burnt-in synthesis-residues from organic reactions (e.g. polymers),
- inorganic residues
- distillation residues
- dried greases
- oils
- colour residues
- varnish
- pigments

Further, deconex 22 HPF-x is suitable for phosphate critical applications like in phosphate- and phosphatase-analysis.

Ingredients

Alkalis, complexing agents, corrosion inhibitor, sequestering agents

Dosage

The optimum dosage depends mainly on the hardness of the water and the kind of the contamination. In principle, the use of softened feedwater improves the cleaning properties. Consequently, the dosage can be reduced.

In practice, the following dosage has given good results:

Dosage	in softened water	in hard water
deconex 22 HPF-x	3-5 ml/l	5-10 ml/l

The cleaning time is 2-5 min at a temperature of 60 °C.

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Information on use

Generally, an increase of the temperature leads to a reduction of the cleaning process time. According to a rule of thumb, raising the temperature by 10 °C, cuts the cleaning process time in half, and vice versa.

We recommend you:
- a proper loading of washing goods in the machine (avoid overloading)
- the use of softened or demineralized water for final rinsing.

Neutralization

For neutralization of alkaline residues, an acidic rinse should always follow the cleaning steps. deconex 26 MINERALACID, deconex 26 PLUS or deconex 25 ORGANACID (for a fully phosphate-free process) are recommended for use as a neutralizer for deconex 22 HPF-x.

Please ask for the corresponding product data sheets.

Material compatibility

Suitable for:
Laboratory glass, ceramics, stainless steel, synthetic material

Not suitable for:
Aluminium, anodised aluminium, zinc and non-ferrous metals

For materials not mentioned please make your own specific compatibility tests or consult Borer Chemie AG.

Chemical/physical data

pH	1% solution in demineralized water	approx. 12.5
Density	concentrate	1.31 g/ml
Appearance	concentrate	transparent, colourless to yellow

Availability

Please ask your local representative about current container sizes.

Containers, screw caps and labels are made of recyclable polyethylene.

Additional information

For information concerning safety at work, storage and waste disposal/effluent, please consult the corresponding safety data sheet.

Take advantage of our vast know-how! Please, contact us for further information regarding your specific application.

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