

# deconex® 22 LIQ-x

## Alkaline special cleaning concentrate

For automated cleaning in laboratories.  
Free of chlorine and phosphate, liquid.



### Application

deconex® 22 LIQ-x is used in laboratories for the removal of organic and inorganic residues and contamination from laboratory glass and reusable laboratory materials.

deconex® 22 LIQ-x is suitable for:

- chemical laboratories
- biological laboratories
- medical laboratories
- food industry laboratories
- pharmaceutical industry

### Properties

deconex® 22 LIQ-x is:

- alkaline
- free of phosphate
- free of chlorine
- free of surfactants
- liquid (ideal for automated dosage)

deconex® 22 LIQ-x is the special cleaner that has been developed for a wide range of automated applications. The product has excellent dirt-removing properties, thus can also act very effectively against dried-on contaminations.

### Dosage

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

In practice, the following dosage has given good results:

| Dosage            | in softened water | in hard water |
|-------------------|-------------------|---------------|
| deconex® 22 LIQ-x | 3-5 mL/L          | 5-10 mL/L     |

At the temperature of 60 °C the cleaning time takes 2-5 min.

Due to its excellent dispersing properties, deconex® 22 LIQ-x effectively prevents a reprecipitation of removed contaminations onto the cleaned parts. Also stubborn residues will be properly removed.

The completely residue-free cleaning of laboratory glass and reusable materials is an important factor for the successful work in analytical, synthesis and cell culture laboratories.

deconex® 22 LIQ-x is suitable to remove various kinds of contamination, e.g.:

- analytical residues
- dried synthesis residues like polymers or organic chemicals
- organic and inorganic salts
- greases
- oils
- pigments
- blood
- tissue residues and
- proteins

### Ingredients

Alkalis, complexing agents, sequestering agents

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## Information on use

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

Additionally we recommend:

- to ensure that all washing goods come into contact with the cleaning solution during the cleaning process,
- to use demineralised water for final rinsing.

## Neutralization

For neutralization of carried over alkaline residues, an acidic rinse should always follow the cleaning steps. After cleaning with deconex® 22 LIQ-x we recommend the use of deconex® 25 ORGANACID (free of phosphates), deconex® 26 MINERALACID or deconex® 26 PLUS neutralizers. Please ask for the corresponding data sheets.

## Chemical/physical data

|            |                                     |                        |
|------------|-------------------------------------|------------------------|
| pH-Wert    | 1 % solution in demineralized water | approx. 12.2           |
| Density    | concentrate                         | 1.23 g/mL              |
| Appearance | concentrate                         | transparent, yellowish |

## Availability

Please ask your local representative about available container sizes.

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

## Material compatibility

Suitable for:

Stainless steel, laboratory glass, ceramics, synthetic materials

Not suitable for:

Aluminium, anodised aluminium, zinc, non-ferrous metals, rubber, latex

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

## Additional information

For information concerning safety at work, storage and disposal of waste/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.

### Manufacturer:

#### Borer Chemie AG

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