

borer 22 LIQ

Alkaline special cleaning concentrate

For automated application in instrument reprocessing and in laboratories. Free of chlorine and phosphate, liquid.



Application

borer 22 LIQ is used in the central sterile supply for the automated reprocessing of surgical instruments and ward utensils, including:

- stainless steel instruments (scalpels, tweezers etc.), articulated instruments (scissors, clamps etc.) and ward utensils (bowls, feeding bottles etc.).

borer 22 LIQ is also universally used in laboratories for the removal of organic and inorganic residues and contamination from laboratory glass and reusable laboratory material.

borer 22 LIQ is used in:

- chemical laboratories, biological laboratories, medical laboratories, pharmaceutical industries and food-industries.

Properties

borer 22 LIQ is:

- alkaline, free of phosphate, free of chlorine, free of surfactants and liquid (for automated dosage).

borer 22 LIQ is a liquid, phosphate- and chlorine-free special cleaner. It has been developed for a wide range of automated applications. The product has excellent dirt-removing properties.

Dosage

The optimum dosage depends mainly on the hardness of the water and the nature of the contamination. In principle, the use of softened feedwater 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
borer 22 LIQ	3-5 ml/l	5-10 ml/l

Usually, the cleaning time is 2-5 min at a temperature of 60 °C.

It even removes dried-on contamination very effectively. Due to its excellent dispersing property, it very efficiently prevents a reprecipitation of removed contamination onto cleaned parts.

In instrument reprocessing, borer 22 LIQ removes:

- blood, residues of tissue and proteins.

Also in case of heavy contamination.

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.

borer 22 LIQ is suitable to remove the most different kinds of contamination, e.g.:

- analysis-residues, dried synthesis-residues like polymers or organic agents, organic and inorganic salts, greases, oils, pigments.

Ingredients

Alkalis, complexing agents, sequestering agents

borer 22 LIQ

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:

- a proper loading of washing goods in racks and machines (avoid overloading),
- to ensure all washing goods come into contact with the cleaning solution during the process,
- to open all instruments with hinges and articulations and
- to use demineralised water for final rinsing.

Neutralization

For neutralization of alkaline residues, an acidic rinse should always follow the cleaning steps. We recommend the use of the neutralizers borer 26 MINERALACID, borer 26 PLUS or borer 25 ORGANACID in combination with borer 22 LIQ. Please ask for the corresponding data sheets.

Chemical/physical data

pH	1% solution in demineralized water	approx. 12.0
Density	concentrate	1.24 g/ml
Appearance	concentrate	transparent, yellowish
Titrate procedure	with 0.1 n hydrochloric acid	indicator: phenolphthalein
Consumption of 0.1 n hydrochloric acid	for 100 ml fresh washing fleet	23 ml/1% (w/w) of concentrate

Availability

Please ask your local representative about current container sizes.

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

Material compatibility

Suitable for:

Laboratory glass, ceramics, PVC, PP, PE (hard), teflon, Viton

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.

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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