Product information
ID 212 instrument disinfection

ID 212 at a glance

- Concentrate for cleaning and disinfection of general and surgical instrument sets as well as alkali-sensitive and alcohol-sensitive rotary instrument sets in hospitals, private practices and laboratories.
- Broad spectrum of activity: bactericidal, tuberculocidal, fungicidal, with limited virucidal activity (enveloped viruses, including HBV, HCV, and HIV as well as non-enveloped viruses, such as adenoviruses and noroviruses).
- Tested in accordance with current VAH methods and European standards.
- VAH list.
- ID 212 is is economical due to its low application concentration, which is only 2% in accordance with VAH.
- Particularly suitable for use in ultrasonic cleaners such as Hygosonic.
- Outstanding compatibility with materials, especially for instruments with rubber/silicone components.
- Aldehyde-free – its mechanism of action is based on quaternary ammonium cations.

Properties

ID 212 from Dürr System Hygiene is a highly effective, aldehyde-free concentrate for cleaning and disinfection of general and surgical instrument sets (e.g. mirrors, probes, forceps, tongs, etc.) in hospitals, private practices, and laboratories. An additional area of application is the cleaning and disinfection of alkali-sensitive and alcohol-sensitive rotary instrument sets, e.g. nickel-titanium endodontic instruments, root canal instrument sets with colour anodised handles, soldered hard metal milling tools, aluminium oxide stones, rubber polishers, etc. ID 212 features excellent material compatibility - contains special corrosion inhibitors.
ID 212 has a pleasant odour.

Product composition

ID 212 is based on a combination of quaternary ammonium cations, guanidine derivatives, non-ionic surfactants, alkaline cleaning components, corrosion inhibitors, excipients, and benzyl salicylate in aqueous solution. 100 g ID 212 contain 18 g alkyl benzyl dimethyl ammonium chloride 50%, 0.1 g guanidine.

Microbiological efficacy

ID 212 is bactericidal[1], tuberculocidal[2], fungicidal[1], with limited virucidal activity (enveloped viruses, including HBV, HCV, and HIV[3, 4] as well as non-enveloped viruses, such as adenoviruses[1] and noroviruses[1]). VAH list. Tested in accordance with EN 13727, EN 13624, EN 14476, EN 14561, EN 14562.

Directions for use

We recommend ID 212 at a 2% concentration and an exposure time of 5 minutes to clean contaminated instruments when used in an instrument container (e.g. Hygobox by Dürr Dental) and a 2% concentration with an exposure time of 2 minutes when used in an ultrasonic cleaner (e.g. Hygosonic by Dürr Dental). Thoroughly rinse instrument sets with running water after cleaning and scrub manually, as necessary. Then disinfect the cleaned instruments with ID 212 in a second instrument container. The recommended application concentration of ID 212 is 2% with an exposure time of 5 minutes in accordance with VAH; we recommend a concentration of 2% with an exposure time of 2 minutes in an ultrasonic cleaner

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(e.g. Hygosonic by Dürr Dental) and 2% with an exposure time of 60 minutes for Tb bacteria. See table for further instructions for use. After the exposure time has elapsed, thoroughly rinse the disinfected instrument sets for at least 15 seconds under running water of at least potable quality (preferably with demineralised water) and dry. Follow the manufacturer's instructions and country-specific requirements for further processing and sterilisation, as applicable.

Environmental impact

All of the organic components of ID 212 are biodegradable at dilution levels that occur in wastewater. The packaging is made of polyethylene and polypropylene and can thus be recycled or incinerated. For recycling, flush bottles with water. The safety data sheet includes disposal instructions for the concentrate.

Physical data

Concentrate:

Appearance: clear, blue, low-viscosity liquid

Density: D = 1.05 ±0.01 g/cm³ (20°C)

pH: 12.1 ±0.3

Working solution (2%):

Appearance: clear, light-blue solution

pH: 10.5 ±0.5

Shelf life

Concentrate: 4 years

Working solution: Unused solution 28 days, used solution depending on contamination max. 7 days. We recommend replacing the solution two to three times weekly in cases of elevated levels of blood, saliva, etc. The disinfectant solution must be replaced immediately if it is visibly contaminated.

Container size

2.5-L bottle

1-L bottle

Storage

Store product at between 5°C and room temperature.

Accessories

Hygobox, Hygosonic.

Application	Concentration	Time
Instrument disinfection (in accordance with VAH)[1)]	2%	5 min
Bacteria[1)] and yeasts[1)]	2%	5 min
Bacteria[1)] and yeasts[1)] in an ultrasonic cleaner	2%	2 min
Tb bacteria (in an ultrasonic cleaner)[2)]	2%	60 min
Aspergillus niger[1)]	4%	60 min
Vaccinia viruses including HBV, HCV, HIV[3), 4)]	2%	1 min
Adenoviruses[1)]	4%	30 min
Noroviruses[1)]	4%	60 min

1) Testing at high burden (VAH, EN 13727, EN 13624, EN 14561).
2) Testing in an ultrasonic cleaner (EN 14563).
3) Testing with and without burden in accordance with DVV/RKI guidelines.
4) In accordance with RKI statement (Federal Health Bulletin 60, 353-363, 2017).

General instructions

General and surgical instrument sets, as well as rotary instrument sets, may be left immersed in the ID 212 working solution for up to 12 hours. Follow the instrument manufacturer's instructions concerning material compatibility, care, and processing. We also recommend ID 215 enzymatic instrument cleaner for cleaning contaminated instruments. Changes in product colour/odour may occur, especially when stored in sunlight. However, these changes in colour and/or odour have no impact on the disinfection efficacy of the product.

Hazard warnings

ID 212 is classified and labelled in accordance with the CLP Regulation: see product label and safety data sheet.

Independent expert opinions – in-house investigations

The expert opinions are available upon request.

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