

# Product information

## ID 212 forte instrument disinfection



### ID 212 forte 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, levurocidal, 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 forte is economical due to its low application concentration, which is only 2% in accordance with VAH.
- Excellent material compatibility due to special corrosion inhibitors.
- Particularly suitable for use in ultrasonic cleaners such as Hygasonic.
- Aldehyde-free – its mechanism of action is based on alkylamines and quaternary ammonium cations.

### Properties

ID 212 forte 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 forte features excellent material compatibility - contains special corrosion inhibitors.

### Product composition

ID 212 forte is based on a combination of quaternary ammonium cations, alkylamines, guanidine compounds, non-ionic surfactants, complexing agents, and excipients, such as benzyl salicylate, butylphenyl methylpropional, and linalool, in aqueous solution. 100 g of ID 212 forte contain: 12.5 g alkyl benzyl dimethyl ammonium chloride, 6 g 3-aminopropyl-dodecyl-1,3-propanediamine, 4 g alkyl-propylenediamine-guanidinium-diacetate.

### Microbiological efficacy

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

### Directions for use

We recommend ID 212 forte 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 1 minute when used in an ultrasonic cleaner (e.g. Hygasonic 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 forte in a second instrument container. The recommended application concentration of ID 212 forte is 2% with an exposure time of 60 minutes in accordance with VAH, including for Tb bacte-

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ria; we recommend a concentration of 2% with an exposure time of 1 minute in an ultrasonic cleaner (e.g. Hygasonic by Dürr Dental) and 4% with an exposure time of 30 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

ID 212 forte is readily biodegradable in accordance with OECD Guideline 301 D. 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:  $D = 1.02 \pm 0.02 \text{ g/cm}^3$  (20°C)

pH:  $10.5 \pm 0.3$

#### Working solution (2%):

Appearance: clear, light-blue solution

pH:  $10.0 \pm 0.5$

### Shelf life

**Concentrate:** 4 years

**Working solution:** Unused solution 28 days; replace used cleaning solutions each day; use disinfectant solutions for a maximum of 7 days, depending on contamination. The disinfectant solution must be replaced immediately if it is visibly contaminated.

### Container size

2.5-L bottle

### Storage

Store product at between 5°C and room temperature.

### Sales

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Höpfigheimer Str. 17  
74321 Bietigheim-Bissingen  
Germany  
www.duerrdental.com  
info@duerrdental.com

### Manufacturer

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70806 Kornwestheim  
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Application	Concentration	Time
<b>Instrument disinfection (in accordance with VAH)<sup>1)</sup></b>	2%	5 min
<b>Bacteria<sup>1)</sup> and yeasts<sup>1)</sup></b>	2%	5 min
<b>Bacteria<sup>1)</sup> and yeasts<sup>1)</sup> in an ultrasonic cleaner</b>	2%	1 min
<b>Tb bacteria (in accordance with VAH)<sup>1)</sup></b>	2%	60 min
<b>Tb bacteria (in an ultrasonic cleaner)<sup>1)</sup></b>	4%	30 min
<b>Vaccinia viruses incl. HBV, HCV, HIV<sup>2) 3)</sup></b>	2%	1 min
<b>Adenoviruses<sup>1)</sup></b>	4%	30 min
<b>Noroviruses<sup>1)</sup></b>	4%	30 min

1) Testing at high burden (VAH, EN 13727, EN 13624, EN 14476, EN 14561, EN 14562).

2) Testing with and without burden in accordance with DVV/RKI guidelines.

3) In accordance with RKI statement (Federal Health Bulletin 60, 353-363, 2017).

### Accessories

Hygobox, Hygasonic.

### General instructions

Do not mix ID 212 forte with aldehyde-based disinfectants. Thoroughly clean the disinfection container prior to initial use of ID 212 forte. General and surgical instrument sets, as well as rotary instrument sets, may be left immersed in the ID 212 forte 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 forte 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.

**CE 0124**

