

Product information

MD 520 impression disinfection



MD 520 at a glance

- Cleaning and disinfection of dental impressions, impression trays, prosthetic models, etc. in the Hygojet by Dürr Dental and immersion disinfection in the Hygobox/disinfection box by Dürr Dental
- Increased precision of the plaster cast thanks to its outstanding cleaning action
- For use with alginates, silicones, polyether rubber, hydrocolloids, polysulphides, polymethyl methacrylate, prosthetic models, etc.
- No negative impact on dimensional stability or plaster compatibility
- Comprehensive spectrum of activity: bactericidal, tuberculocidal, yeasticidal, virucidal (enveloped viruses incl. HBV, HCV, HIV, coronaviruses as well as non-enveloped viruses, such as adenoviruses, polyomaviruses SV 40, polioviruses, noroviruses)
- VAH list. IHO list of disinfectants
- Virucidal activity in accordance with DVV/RKI guidelines and EN 14476
- Tested in accordance with EN 13727, EN 13624, EN 14348, EN 14561, EN 14562, EN 14563, EN 14476, EN 17111
- Extremely economical when used in the Hygojet. 4 x 2.5 L suffice for 1000 applications

Properties

MD 520 from Dürr System Hygiene is a highly effective, formaldehyde-free working solution for cleaning and disinfection of contaminated dental impressions, impression trays and prosthetic models in the Hygojet by Dürr Dental. MD 520 is also suitable for immersion disinfection in the Hygobox/disinfection box by Dürr Dental. Dental impressions made of alginate, silicone, polyether rubber, polysulphide and hydrocolloids can be reliably cleaned and disinfected with MD 520 while maintaining dimensional accuracy and compatibility with plaster. The removal of blood, saliva, etc. associated with the process increases the precision of the plaster cast. MD 520 can also be used for the disinfection of dentures, bridges, crowns, orthodontic appliances, and drilling templates for implant systems, etc.

Product composition

MD 520 is based on a combination of aldehydes and quaternary ammonium compounds. 100 g MD 520 contains 0.5 g glutaraldehyde, 0.25 g alkyl benzyl dimethyl ammonium chloride, < 5 g non-ionic surfactants, complexing agents, excipients.

Microbiological efficacy

MD 520 is bactericidal^[1], tuberculocidal^[2], yeasticidal^[1], virucidal (enveloped viruses incl. HBV, HCV and HIV^[3], ^[4]) as well as non-enveloped viruses, such as adenoviruses^[1], ^[3], polyomaviruses SV 40^[3], polioviruses^[1], ^[3], noroviruses^[1], ^[2], ^[3]). MD 520 is included in the VAH list and IHO list of disinfectants. Tested in accordance with DVV/ RKI guidelines, EN 13727, EN 13624, EN 14348, EN 14561, EN 14562, EN 14563, EN 14476, EN 17111.

Directions for use

MD 520 is applied undiluted. For use in the Hygojet, attach a valve to the 2.5-L bottle and place it upside down in the mounting device on the Hygojet. Carefully follow the operating instructions. Rinse a maximum of six impressions per work cycle successively with water in the Hygojet for 10 seconds each (5 seconds on each side). Then spray each impression with MD 520 evenly on both sides and place the impressions in the system. Set the exposure time on the timer (see table). The system will indicate the end of each disinfection cycle. When the timer goes off, thoroughly rinse the disinfected impressions with water of at least potable quality (for 10 seconds – 5 seconds on each side) and blow dry with air, as necessary. Carry out further processing of the casts according

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to the manufacturer's instructions. Treat dentures, etc. as described above. For immersion disinfection and cleaning, hang the impressions, etc. in the disinfection box using the mounting device (max. of 2) or immerse them in the Hygobox (max. of 6). In accordance with VAH, the exposure time is 5 minutes, for Tb bacteria 15 minutes and for viruses 30 seconds to 15 minutes (see table). Then rinse the disinfected components with water of at least potable quality (for 30 seconds – 15 seconds on each side) and blow dry with air, as necessary. Change solution at least 1 time per week; maximum of 50 impressions in the Hygobox or 20 impressions in the disinfection box.

Environmental impact

The packaging is made of polyethylene and polypropylene and can thus be recycled or incinerated. For recycling, flush bottles with water.

For further information see safety data sheet.

Physical data

Appearance: clear, yellow solution

Density: $D = 0.99 \pm 0.02 \text{ g/cm}^3$ (20°C)

pH: 4.3 ± 0.5

Shelf life

3 years

Service life for immersion disinfection depending on the load, max. 1 week or 50 impressions in the Hygobox or 20 impressions in the disinfection box.

Container sizes

10-L canister

2.5-L bottle

Storage

Store product at between 5°C and room temperature.

Accessories

Hygojet, Hygobox, disinfection box.

General instructions

Scientific studies have proven that dimensional accuracy and compatibility with plaster are maintained if MD 520 is used as directed

Application	Time
Instrument disinfection (in accordance with VAH)¹⁾	5 min
Bacteria¹⁾ and yeasts¹⁾	5 min
Tb bacteria²⁾	15 min
Enveloped viruses incl. HBV, HCV, HIV, coronaviruses^{3), 4)}	30 sec
Non-enveloped viruses^{1), 3)}	15 min
Adenoviruses^{1), 3)}	5 min
Polyomaviruses SV 40³⁾	1 min
Polioviruses^{1), 3)}	5 min
Noroviruses^{1), 2), 3)}	15 min

1) Testing at high load (VAH, EN 13727, EN 13624, EN 14561, EN 14562, EN 14476, EN 17111).

2) Testing at low load (EN 14348, EN 14563, EN 17111).

3) Testing with and without load in accordance with DVV/RKI guidelines.

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

in the Hygojet and for immersion disinfection in the Hygobox/disinfection box. At exposure times of greater than 15 minutes in the Hygojet or in the immersion box, suitability must be tested and assessed on a case-by-case basis. Do not mix MD 520 with other products. Contact with MD 520 may result in reddish brown discolorations. To ensure safety, we recommend testing the product for each intended use. Use up opened bottle within 3 months. 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. Use exclusively by qualified personnel. All serious incidents that occur in association with the product must be immediately reported to the manufacturer and the competent authority of your member state.

Hazard warnings

MD 520 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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