

# Product information

## MD 520 impression disinfection



### MD 520 at a glance

- Cleaning and disinfection of dental impressions, impression trays, prosthetic models 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.
- Extensive range of effectiveness: Bactericidal, tuberculocidal, yeasticidal, mycobactericidal and fungicidal in the ultrasonic cleaner, virucidal (enveloped viruses incl. HBV, HCV, HIV and coronaviruses as well as non-enveloped viruses, such as adenoviruses, noroviruses, polioviruses, polyomaviruses SV 40).
- VAH list. IHO Disinfectant List.
- Tested in accordance with EN 13727, EN 13624, EN 14348, EN 14476, EN 14561, EN 14562, EN 14563, EN 17111 and DVV/RKI guidelines.
- 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, ready-to-use 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.

### Antimicrobial effect

MD 520 is bactericidal, tuberculocidal, yeasticidal, mycobactericidal and fungicidal in the ultrasonic cleaner, virucidal (enveloped viruses incl. HBV, HCV, HIV and coronaviruses as well as non-enveloped viruses, such as adenoviruses, noroviruses, polioviruses, polyomaviruses SV 40). MD 520 is included in the VAH and IHO lists of disinfectants. Tested under high load in accordance with EN 13727, EN 13624, EN 14348, EN 14476, EN 14561, EN 14562, EN 14563, EN 17111 as well as the DVV/RKI guideline.

### 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. Observe the Hygojet assembly and operating instructions. Rinse a maximum of six impressions/prosthetic workpieces per work cycle successively with water in the Hygojet for 10 seconds each (5 seconds on each side) and then dry. Then spray each impression / prosthetic workpiece with MD 520 evenly on both sides and place the impressions in the system. The end of each spray cycle is indicated by the message "chem control" being displayed on the device. Set the exposure time on the timer (see table). At the end of the exposure time, thoroughly rinse the disinfected impressions / prosthetic workpieces with water of at least potable quality (for 10 seconds - 5 seconds on each side) and dry, as necessary. Carry out further processing of the impressions / prosthetic workpieces according to the manufacturer's instructions. For immersion disinfection and cleaning, hang the impressions / prosthetic workpieces, 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 (bactericidal / yeasticidal), 15 minutes for Tb bacteria, and 30 seconds to 15 minutes for viruses. For prosthetic workpieces, a fungicidal or mycobactericidal action is achieved after 30 minutes or 60 minutes respectively in the ultrasound device (see table). Then rinse the disinfected impressions / prosthetic workpieces with water of at least potable quality (for 30 seconds - 15 seconds on each side) and dry, as necessary. The immersion disinfectant must not be used for more than a maximum of 7 days or 20 impressions / prosthetic workpieces per litre. The disinfectant solution must be replaced without delay if it is visibly contaminated.

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### 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.

### Shelf life

Do not use the product after the expiry date printed on the packaging. Service life for immersed disinfection depending on the load, max. 1 week or 50 impressions in the Hygobox or 20 impressions in the disinfection tub.

### Container sizes

10-L canister  
2.5-L bottle

### Storage

Store in a well-ventilated place. Keep container tightly closed.

### Accessories

Hygojet, Hygobox, disinfection box.

### General notes

Scientific studies have proven that dimensional accuracy and compatibility with plaster and specified impressions / prosthetic work-

pieces are maintained if MD 520 is used as directed 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 discolourations. 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 events 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 according to the CLP Regulation. For further information see safety data sheet.  
pH: 3.5–4.5

### Independent expert opinions – in-house investigations

The expert opinions are available upon request.



Application		Contact time
Recommendation for use for instrument disinfection in accordance with VAH		Bactericidal / yeasticidal 5 min.
Type of activity	Tested according to	Contact time
Disinfection of		
		impression materials      Prosthetic workpieces (final disinfection)
<b>Bacteria and yeasts</b>		
Bactericidal / yeasticidal	EN 13727, EN 13624, EN 14561, EN 14562	5 min.      5 min.
Tuberculocidal	EN 14348, EN 14563	15 min. <sup>1)</sup> 15 min. <sup>1)</sup>
Mycobactericidal in the ultrasonic cleaner	EN 14348, EN 14563	-      60 min.
<b>Moulds</b>		
Fungicidal in the ultrasonic cleaner	EN 13624, EN 14562	-      30 min.
<b>Viruses</b>		
Virucidal activity against enveloped viruses (enveloped viruses including HBV, HCV, HIV as well as coronaviruses)	EN 14476, EN 17111	15 min.      15 min.
	DVV / RKI guideline	30 sec.      30 sec.
Viricidal (enveloped and non-enveloped viruses incl. rotaviruses, adenoviruses, polioviruses, and polyomaviruses SV40)	EN 14476, EN 17111 <sup>2)</sup>	15 min.      15 min.
	DVV / RKI guideline	5 min.      5 min.

1) Testing under low burden. Testing at high burden: 30 min.

2) Testing against murine norovirus under low burden

### Sales

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