

Product information

MD 520 impression disinfection



MD 520 features in brief

- Disinfection and cleaning of dental impressions, impression moulds, prosthetic work, corrosion-resistant articulators, etc. in the Dürr Dental Hygojet or during immersion disinfection in the Hygobox/Disinfection bowl from Dürr Dental.
- Increased precision of the plaster cast thanks to excellent cleaning results.
- To be used for alginates, silicones, polyether rubber, hydrocolloids, polysulphides, prosthetic work, etc.
- No impairment of dimensional stability or plaster compatibility.
- Comprehensive effective spectrum: bactericidal, tuberculocidal, levurocidal, virucidal (enveloped viruses, e.g. vaccinia viruses inclusive of HBV, HCV, HIV and non-enveloped viruses, e.g. adeno viruses, noro viruses, polio viruses).
- List of VAH.
- Extremely economical application in the Hygojet System. 4 x 2.5 litres last for 1000 applications.

Characteristics

MD 520 from Dürr System-Hygiene is a highly effective, formaldehyde-free ready-to-use solution for simultaneous disinfection and cleaning in the Dürr Dental Hygojet of dental impressions, impression moulds and denture work contaminated with blood and saliva. MD 520 is likewise suitable for immersion disinfection and cleaning in the Dürr disinfection box/disinfection bowl. Dental impressions of alginates, silicone, polyether rubber, polysulphide and hydrocolloids can be reliably disinfected and cleaned with MD 520 without impairment of dimensional stability and compatibility to plaster. The incidental removal of blood, saliva, etc. leads, in addition, to increased precision of the plaster cast. Furthermore, MD 520 can also be used for the disinfection of dentures, bridges, crowns, as well as corrosion-resistant articulators, etc.

Chemical composition

MD 520 is based on a combination of aldehydes, quarternary ammonium compounds, special surfactants and adjuvants in aqueous solution. 100 g MD 520 contain: 0.5 g glutardialdehyde, 0.25 g alkyl-benzyl-dimethyl-ammoniumchloride.

Microbiological effectiveness

MD 520 is bactericidal^[1], tuberculocidal^[2], levurocidal^[1], virucidal (enveloped viruses, e.g. vaccinia viruses, incl. of HBV, HCV, HIV^[3]).⁴⁾ and non-enveloped viruses, e.g. adeno viruses^[1], noro viruses^[1], polio viruses^[1]). List of VAH. Tested in accordance with EN 13727, EN 13624, EN 14348, EN 14563, EN 14476.

Directions for use

MD 520 is used undiluted. For use in the Hygojet System, fit 2.5-litre bottle with tap and place it upside down in the acceptance device of the Dürr Hygojet. Follow precisely the instructions for use of the appliance. Up to six impressions can be disinfected and cleaned in one operation with MD 520 in the Dürr Hygojet. Rinse a maximum of six impressions at once with water for 10 sec. (5 sec. on each side) and then disinfect them with MD 520 by spraying either side evenly. Place them into the appliance and watch for the signal showing the end of each disinfection process. After the last disinfection, set time switch for maximum position (= 10 min.).

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At the ring of a bell, rinse the disinfected impressions thoroughly with water for 10 sec. (5 sec. on each side) and, if necessary, dry them in a stream of air. Further processing of the impressions is effected according to the instructions given by the manufacturers (for instance: place alginate impression into Hygrophor; immerse hydrocolloid impression into 2 % potassium sulphate solution and plaster-out; etc.). Treat prostheses etc. as described above.

Severely contaminated articles should subsequently be cleaned in the ultrasonic cleaner. For immersion disinfection and cleaning, hang impressions trays etc. in the acceptance device of the disinfection bowl (not more than two) or place them in the disinfection box (not more than six). Action time required is 5 minutes only. Rinse the disinfected impressions thoroughly with water and, if necessary, dry them in a stream of air.

Environmental behaviour

The ready-to-use solution of MD 520 is ecologically safe. If adequately diluted, all active constituents are biodegradable in flush water. The packing is made of polyethylene and can therefore be exploited both materially and thermally. For recycling, rinse bottle with water.

Physical properties

Appearance: clear, yellow solution

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

pH value: 4.3 ± 0.5

Shelf life

3 years

Used solutions for immersion disinfection max. 1 week or 50 impressions in the Hygobox, 20 impressions in the disinfection bowl

Packaging sizes

10-litre canister

2.5-litre bottle

Storage

Store product at 5°C to room temperature max.

Application	Time
Disinfection of impressions in the Hygojet	10 min.
Immersion disinfection in the Hygobox, Disinfection bowl	5 min.
Bacteria¹⁾ and yeast fungi¹⁾	30 sec.
Tb bacteria²⁾	5 min.
Vaccinia viruses inclusive of HBV, HCV, HIV^{3), 4)}	30 sec.
Adeno viruses¹⁾	2 min.
Noro viruses¹⁾	5 min.
Polio viruses¹⁾	5 min.

1) Testing at high burden.

2) Quant. suspension test, EN 14348/EN 14563: 100 %/15 min.

3) Test with and without load.

4) In accordance with RKI recommendations (Bundesgesundheitsbl. 47, 62-66, 2004).

Accessories

Hygojet, Hygobox, Disinfection bowl

Caution

Scientific experiments have proved that when disinfecting with MD 520 in the Dürr Hygojet in accordance with the instructions, or even when immersion disinfecting in the Dürr disinfection box/disinfection bowl, mould stability and plaster compatibility are preserved. For safety reasons, we advise carrying out your own tests for your specific application. Once opened, the bottle must be used up within 3 months.

Hazard Statement

MD 520 is classified and labelled according to the CLP Regulation: see product label and safety data sheet.

Independent expert opinions - own test reports

All expert reports are available upon request.

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