DECOMET

Liquid product, citric acid based, for the passivation of all grades of medical stainless steel. Removes iron oxides and accelerates the formation of a chromium passivation film.

MEDICAL RANGE

FUNCTIONS	CONTAMINANTS
Soaking passivation process	Iron oxides

COMPATIBILITY

- Stainless steel:
  - Austenitic
  - Martensitic
  - Precipitation Hardening
- Ceramics
- Chromium - Cobalt
- Titanium
- Aluminium
- Polymers*

*Check compatibility with NGL.

COMPONENTS

- Citric acid, surfactants.
- No NTA, phosphates, DEA, perfums or colourant.

PHYSICOCHEMICAL DATA

- pH concentrated: 1.00
- pH (5%): 2.4
- Density: 1.17
- Surface tension: 30.9 mN/m

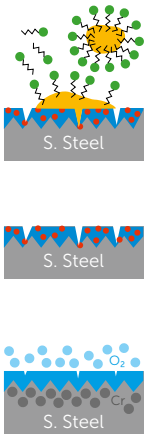
INSTRUCTIONS FOR USE*

See ASTM 1967 - 17 for process recommendations.

- Concentration: 10 à 20%
- Temperature: 420 à 70°C
- Time: 4 to 20 minutes

*Dependent on the quality of the water and the nature and quantity of contaminants.

PASSIVATION STEPS



1. Surface cleaning: water + Galvex 20.01
2. Fe_2O_3 removal with Decomet
3. Passivation: Cr_2O_3

07/06/21

STORAGE CONDITIONS

- Keep the recipient hermetically sealed between 5°C and 40°C (41°F and 104°F) in a dry place.
- Always keep in packaging made from the same material as the original packaging (PEHD).

PRODUCT COMPATIBLE WITH VALIDATION STANDARDS

- Cleaning:
  - ISO 19227 - 2018 (UE)
  - ASTM 3127 - 2016 (USA)
- Characterization of inorganics:
  - ISO 10993 - 18
- Stainless steel passivation:
  - ASTM A967 - 17
  - ASTM F1089 - 18

PROCESS EXAMPLE

- Final washing before passivation of medical devices

CLEANING		PASSIVATION				
GALVEX 20.01 Tap water Conc.: 3-4% Temp.: 65°C 149°F Time: 3-5 min US	TAP WATER RINSE Temp.: 20-30°C 68-86°F Time: 3-5 min	DECOMET* Tap water Conc.: 10% Temp.: 40°C 104°F Time: 10 min US *see ASTM A967	TAP WATER RINSE Temp.: 20-30°C 68-86°F Time: 3-5 min	DI WATER RINSE Temp.: 20-30°C 68-86°F Time: 3-5 min	DI WATER RINSE Temp.: 20-30°C 68-86°F Time: 3-5 min	HOT AIR DRYING

If you have any questions, please contact our Application Centre on: +41 22 365 46 66

NGL CLEANING TECHNOLOGY SA - ECOLOGICAL CLEANING SOLUTIONS
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SWISS QUALITY

CLEANING AND PASSIVATION

Quality, reliability and expertise, applied to surface preparation of medical devices.

MEDICAL RANGE

COMPATIBILITY

- Stainless steel:
  - Austenitic
  - Martensitic
  - Precipitation Hardening
- Titanium:
  - T40, Ti-6Al-4V
- Chromium - Cobalt
- Ceramics
- Aluminium
- Polymers

DEVICES

- Implants:
  - Orthopaedics
  - Dental
  - Stents
- Surgical instruments:
  - Ancillary
  - Needles, staples
  - Blades, drills, saws, etc...
  - Catheters

APPLICATIONS

- Interoperation cleaning:
  - Cutting oil, neat or soluble
  - Abrasives: blasting, polishing compounds
  - Fluorescent dye penetrant
- Finishing:
  - Tumbling, emery
  - Iron oxide (passivation)
  - Dust, fingerprints, etc...

PRODUCTS	FUNCTIONS	APPLICATIONS	PH
RUBIFIN N°4	Vacuum cleaning	Oil removal	Solvant
RODACLEAN 2018	Ultrasonic cleaning	Interoperation	12,6
DECOCLEAN 440	Spray cleaning	Interoperation	13,7
GALVEX 20.01	Ultrasonic cleaning	Interoperation and finishing	8,9
DECOSPRAY TM	Spray cleaning	Interoperation	9,6
DECOMET	Soaking	Passivation	2,4

RANGE COMPATIBLE WITH VALIDATION STANDARDS

- Cleaning:
  - ISO 19227 - 2018 (UE)
  - ASTM 3127 - 2016 (USA)
- Characterization of inorganics:
  - ISO 10993 - 18
- Passivation:
  - ASTM A967M - 17

REGULATORY COMPLIANCE

REACH N°1907/2006			CLP 1272/2008	DM 2017/745			2011/65/UE	BIOCIDE 528/2010/UE
Candidates subst. to SVHC	Authorised subst. (annex XIV)	Restricted subst. (annex XVII)	CMR Cat. 1A/1B Cat. 2	Severe endocrine disruptors	Phtalates, latex, nanomaterials	Subst. of animal origin	ROHS	BPR
✔	✔	✔	✔	✔	✔	✔	✔	✔

SUPPORT

- NGL Academy: traning on cleaning, passivation, water treatment, regulation.
- Application Center: Cleaning machines, analytical tools for all kinds of trials.
- Worldwide and local implantation.

MONITORING CLEANING PARAMETERS: UPC 3000

- Temperature
- US Power
- % Chemistry
- Water quality

NGL CLEANING TECHNOLOGY*

- ISO 9001 – Quality
- ISO 14001 – Environnement
- ISO 45001 – Health and safety at work

*Certificates applicable to the production site.

02/06/21

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