

MEDICAL DEVICES

IMPLANTS AND SURGICAL INSTRUMENTS



ECOLOGICAL CLEANING SOLUTIONS

 SWISS QUALITY



CLEANING AND SURFACE PREPARATION

Quality, reliability, expertise, applied to surface preparation of medical devices (MD) before passivation, anodisation or electropolishing

COMPATIBILITY

- Stainless steel:
 - Austenitic
 - Martensitic
 - Precipitation hardening
- Titanium:
 - T40, Ti-6Al-4V
- Chromium - cobalt
- Ceramic
- Aluminium
- Polymer

PARTS

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

POLLUTIONS

- Cutting oil, neat or soluble
- Abrasives: blasting, polishing, compounds, tumbling, emery
- Fluorescent dye penetrant
- Iron oxide (passivation)
- Fingerprints, dusts

DETERGENTS, SOLVENT, FINISHING AND PASSIVATION

PRODUCTS	pH	TYPE	FUNCTION	APPLICATION/POLLUTION
DECOCLEAN 540 ¹	13.7	Detergent	Spray or ultrasonic cleaning ³	Neat oil, polishing compounds
DECOSPRAY TM ¹	9.6			
RODACLEAN 2018 ²	14			
GALVEX 20.01 ²	8.9	Finishing detergent	Ultrasonic cleaning	Polishing compounds, soluble oil, dye penetrant, light pollutions
RODASTEL 30	0.5		Polishing compounds	
BIOPTIC 201	0.7		Spray or ultrasonic cleaning ³	Neat oil, polishing compounds
DECOMET	1	Citric acid passivation	Soaking	Free iron oxide removal
RUBIFIN N°4	N.A.	Solvent	Degreasing in vacuum or ultrasonic machines	Neat oil

¹ Requires an oil separator

² Can be used in surface preparation prior to passivation

³ Can be used in vacuum system

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
✓	✓	✓	✓	✓	✓	✓	✓	✓

Our products are compatible with validation standards : cleaning (ISO 19227 - 2018, ASTM F3127 - 16), characterization on inorganics (ISO 10993 - 18), passivation (ASTM A967M - 17, ASTM F1089 - 18)

SUPPORT

- NGL Academy:** training on precision cleaning, passivation, water treatment, and HSE regulation
- Application Centre:** various cleaning systems and wide range of analytical tools for all types of tests
- Worldwide and local implementation**

ISO CERTIFICATION*

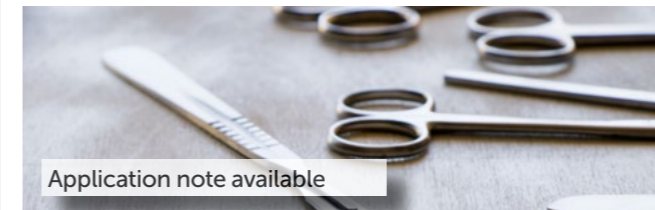
- ISO 9001 - Quality
- ISO 14001 - Environment
- ISO 45001 - Health and safety at work

*Applicable to the production site at NGL Cleaning Technology SA

INSTRUMENT PASSIVATION

GALVEX 20.01 and DECOMET

- Process :** Cleaning of surgical instruments (forceps, scalpels, etc.) prior to passivation with GALVEX 20.01 and surface treatment with DECOMET to promote chromium oxidation forming a protective layer.



Application note available

MD DE-OILING

RUBIFIN N°4, DECOSPRAY TM and DECOCLEAN 540

- Process :** Aqueous degreasing by spraying or ultrasonic cleaning with DECOSPRAY TM and DECOCLEAN 540. Solvent degreasing with RUBIFIN N°4.



REMOVAL OF POLISHING PASTE FROM IMPLANTS

RODACLEAN 2018 and GALVEX 20.01

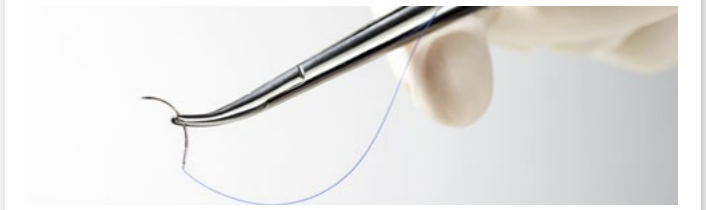
- Process :** Ultrasonic cleaning steel, titanium or chrome/cobalt implants from polishing pastes, for perfect removal of fatty binders, fibers and abrasives. This process also applies to instruments.



SURFACE PREPARATION OF NEEDLES

RODACLEAN 2018 and RODASTEL 30

- Process :** For perfect cleanliness, right down to the tip of the needle, Rodaclean 2018 removes all deposits, especially organic ones, and Rodastel 30 provides an acid finish suitable for silicone deposits.



CANNULAS CLEANING

On request

- Process :** NGL products are highly wettable, making them ideal for cleaning and rinsing cannulas, both inside and outside.



PREPARATION BEFORE CLEANROOM

DECOCLEAN 540 and BIOPTIC 201

- Process :** Final spray cleaning with Decoclean 540 followed by neutralization with Bioptic 201, for decontamination of your MD before cleanroom entry.



Find all our products and application notes specific to medical devices on our website.



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