



WATCH INDUSTRY



ECOLOGICAL CLEANING SOLUTIONS

 SWISS QUALITY



CLEANING AND SURFACE PREPARATION

Quality, reliability and expertise applied to the surface preparation of sensitive materials and parts with complex geometries and very small dimensions

COMPATIBILITY

- Steels:
 - Inox, 301, 304, 316L, 420
 - Maraging
 - 20AP, H1, CK101, CK75
- Aluminium
- Copper alloys:
 - Bronze, CuBe,
 - Cuproaluminum, cupronickel
 - Brass (leaded and unleaded)
 - Nickel silver
- Gold: white, pink, yellow
- Platinum
- Titanium

PARTS

- Hands
- Pallets
- Balance
- Barrel
- Oscillating mass
- Pinions
- Bars
- Plate
- Wheels
- Ruby
- Screws

POLLUTIONS

- Oil, grease
- Polishing compounds
- Abrasives: satin-finish, microbalsting
- Oxides
- Varnish, glue, lacquer
- Fingerprints, dusts

DETERGENTS, SOLVENTS, FINISHING AND SPECIFIC APPLICATIONS

PRODUCT	pH	TYPE	FUNCTION	APPLICATION/POLLUTION
DECOCLEAN 540 ¹	13.9	Detergent	Spray or ultrasonic cleaning ³	Neat oil
DECOSPRAY TM ¹	9.6			
RODACLEAN 2018 ²	14			
GALVEX 18.01	9.5			
GALVEX 20.01	8.9			
GALVEX 20.02	10			
GALVEX TM	9.8			
GALVEX 20.31	10	Ultrasonic cleaning		Lacquer
HELIT 2022	7.1			Hydrophilic finish
SUPER HELIT IC	7.1			Hydrophobic finish
GALVEX 18.08	9.5			Deoxidation, brightening ect
RODASTEL 30	0.5	Rinse additive	Soaking	Protection against corrosion
KORROSTOP 5000	12.3			
ALLSTRIP	N.A.	Solvent	Ultrasonic cleaning	Glue, varnish, lacquer

¹ Requires an oil separator

² Suitable for any type of steel

³ Can be used in vacuum system

CLEANING MULTI-MATERIAL MOVEMENTS

GALVEX TM

- Process : Common cleaning of parts made of different materials such as aluminum, brass or steel after polishing.



CLEANING SENSITIVE STEEL COMPONENTS AFTER POLISHING

RODACLEAN 2018 and GALVEX 18.08

- Process : Stripping and cleaning of sensitive steel components after polishing on a stainless steel support. RODACLEAN 2018 removes and cleans parts, GALVEX 18.08 provides corrosion protection. Add KORROSTOP 5000 if required.



CLEANING PRECIOUS-MATERIAL COMPONENTS AFTER POLISHING

GALVEX 20.31 and SUPER HELIT IC

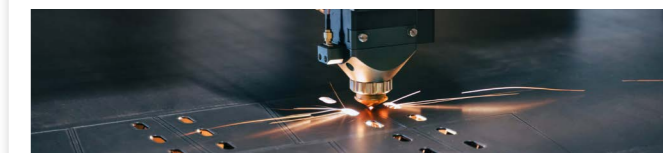
- Process : Removal and cleaning of precious-material components after polishing on a brass support. GALVEX 20.31 removes and cleans parts, SUPER HELIT IC adds shine.



DEOXIDATION OF SENSITIVE STEELS AFTER LASER CUTTING

DECOCLEAN 540, GALVEX 18.01 and KORROSTOP 5000

- Process : Deoxidizes and removes slag from sensitive steel parts after laser cutting. KORROSTOP 5000 offers corrosion protection during rinsing.



CLEANING CuBe PINS

GALVEX 20.01 and HELIT 2022

- Process : Cleaning of CuBe parts and alternative CuNiSn alloys with GALVEX 20.01 and hydrophilic finishing with HELIT 2022.



CLEANING STEEL PARTS AFTER Ni COATING

GALVEX 20.02

- Process : Cleaning of steel parts after electrolytic or chemical nickel coating.



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



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CLEANING AND SURFACE PREPARATION

Quality, reliability and expertise applied to the surface preparation of watch dials prior to lacquering, electroplating or decorative PVD/CVD

COMPATIBILITY

- Steel
- Aluminium
- Brass (leaded and unleaded)
- Nickel silver
- Mother-of-pearl
- Lacquered dials

PARTS

- Dials

POLLUTIONS

- Oil
- Solder
- Polishing compounds
- Abrasives: guilloché work, satin finish, microblasting, sunray brushing
- Fingerprints, dusts
- Varnish, lacquer

DETERGENTS, SOLVENTS, FINISHING AND SPECIFIC APPLICATIONS

PRODUCT	pH	TYPE	FUNCTION	APPLICATION/POLLUTION
DECOSPRAY TM	9.6	Detergent	Spray or ultrasonic cleaning	Neat oil
DECOSPRAY HT 8	8.5			
GALVEX 18.01	9.5		Polishing compounds, soluble oil, light pollutions	
GALVEX 20.01	8.9			
GALVEX 20.02	10			
GALVEX TM	9.8			
HELIT 2022	7.1	Finishing detergent	Ultrasonic cleaning	Hydrophilic finish
SUPER HELIT IC	7.1			Hydrophobic finish
NANOCLEAN 2018	9.5			Hydrophilic finish
OPTICAL 10L	5.5			Hydrophilic acid finish
RODASTEL 30	0.5			Deoxidation, brightening effect
SCHUTZLACK 2005 SP L ROSE	N.A.	Masking varnish	Spraygun or paintbrush	Water-soluble masking varnish
SCHUTZLACK NGL 2002 ROSE	N.A.		Aerosol spray	
RUBIFIN N°4	N.A.	Solvent	Degreasing in vacuum or ultrasonic machines	Neat oil
ALLSTRIP	N.A.		Ultrasonic or beaker cleaning	Varnish removal

1 Suitable for any type of steel

DE-OILING OF LEAD-FREE BRASS DIALS AFTER MACHINING

DECOSPRAY TM (or HT 8) and GALVEX 18.01

- Process : Degrease dials with DECOSPRAY TM or HT8 depending on oil. Cleaning of grease residues with GALVEX 18.01 to give parts a shiny finish.



CLEANING AND PROTECTING DIALS AFTER POLISHING

GALVEX 20.01 and SUPER HELIT IC

- Process : Cleaning after polishing of lead-free brass dials with GALVEX 20.01 and protection during storage with SUPER HELIT IC.



VARNISH REMOVAL

ALLSTRIP and HELIT 2022

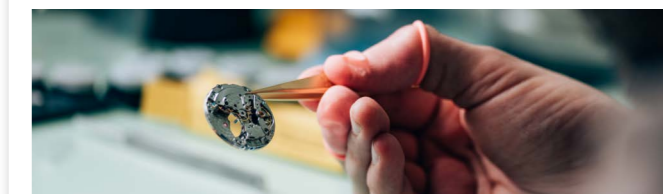
- Process : Removal of varnish from dials and cleaning of parts.



CLEANING DIALS AFTER RHODIUM PLATING

GALVEX TM and RODASTEL 30

- Process : Cleaning parts after Rh galvanic coating with GALVEX TM. Removal of galvanic residues with RODASTEL 30.



CLEANING OF NACRE DIALS

GALVEX 20.02 and OPTICAL 10L

- Process : Cleaning of mother-of-pearl dials after machining with GALVEX 20.02. OPTICAL 10L gives parts a shiny finish.



CLEANING DIALS AFTER PVD COATING

NANOCLEAN 2018

- Process : Cleaning of dials after black PVD coating with NANOCLEAN 2018, compatible with PVD/CVD coatings.



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CLEANING AND SURFACE PREPARATION

Quality, reliability and expertise applied to sensitive materials and to transparent watch parts

COMPATIBILITY

- Glass:
 - Mineral
 - Acrylic glass (plexiglass, hesalite)
 - Sapphire
- Substrates:
 - Brass
 - Stainless steel
 - Steel

PARTS

- Glass
- Date magnifiers
- Lapping plate

POLLUTIONS

- Cutting oil
- Abrasives:
 - Cerium oxide
 - Silicon dioxide
 - Aluminium oxide
- Polishing compounds
- Fingerprints, dusts
- Blocking glue

DETERGENTS, SOLVENTS, FINISHING AND SPECIFIC APPLICATIONS

PRODUCT	pH	TYPE	FUNCTION	APPLICATION/POLLUTION
ALLSTRIP	N.A.	Solvent		Varnish, blocking glue
RODACLEAN 2018	14	Detergent	Ultrasonic cleaning	Abrasives, varnish, blocking glue
OPTICAL 2021	14			Abrasives
OPTICAL V	14			Soluble oil, polishing compounds, tribofinition
GALVEX SU 737	7.2			Light pollutions
NANOCLEAN 2018	9.5	Finishing detergent	Spray or ultrasonic cleaning ²	Cutting oil, abrasives
DECOCLEAN 540 ¹	13.9			Hydrophilic finish
BIOPTIC 201 ¹	0.7		Ultrasonic cleaning	Hydrophilic superfinish
OPTICAL 30	0.5			Antistatic finish
GL 801 S	6.7			Hydrophilic acid finish
PRECIOPTIC 18.22	10.5			
OPTICAL 10L	5.5			

¹ Requires an oil separator

²Can be used in vacuum system

CLEANING SAPPHIRE BEFORE ANTI-REFLECTIVE COATING

OPTICAL V and OPTICAL 30

- **Process:** Cleaning of sapphire lenses prior to anti-reflective coating with OPTICAL V, surface preparation for PVD/CVD coating with OPTICAL 30.



REMOVAL AND CLEANING OF SAPPHIRE GLASS AFTER POLISHING

OPTICAL 2021 or RODACLEAN 2018 and OPTICAL 10L

- **Process :** Removal of glass from support and cleaning of polishing residues with OPTICAL 2021. OPTICAL 10L gives a shiny finish.



DEGREASING ASSEMBLED BOXES

GALVEX SU 737 and BIOPTIC 201

- **Process :** GALVEX SU 737 is used to degrease mounted boxes without damaging the seal and BIOPTIC 201 is used for acid finishing to give parts a glossy appearance.



UNDUSTING OF MOUNTED BOXES

NANOCLEAN 2018 and PRECIOPTIC 18.22

- **Process :** NANOCLEAN 2018 removes dust from assembled boxes without impairing sealing. PRECIOPTIC 18.22 adds antistatic properties to the surface.



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CLEANING AND SURFACE PREPARATION

Quality, reliability and expertise applied to sensitive materials and external watch components

COMPATIBILITY

- Aluminium
- Stainless steel
- Ceramic
- Brass (unleaded)
- Gold: white, pink, yellow
- Polymers
- Titanium
- Rhodium, palladium

PARTS

- Watch band: links - strand
- Spring bars
- Clasps
- Watch cases: crowns, bezels, case body, backs

POLLUTIONS

- Oil, grease
- Polishing compounds
- Abrasive
- Oxides
- Fingerprints
- Masking varnish
- Glue, lacquer

DETERGENTS, SOLVENTS, FINISHING AND SPECIFIC APPLICATIONS

PRODUCT	pH	TYPE	FUNCTION	APPLICATION/POLLUTION
DECOCLEAN 540 ¹	13.9	Detergent	Spray or ultrasonic cleaning ³	Neat oil
RODACLEAN 2018 ²	14			Polishing compounds, soluble oil, light pollutions
RODAWEG CO SUPER	14			
GALVEX 20.01	8.9			
GALVEX 20.02	10		Ultrasonic cleaning	Alkaline residues, minerals, oxides
CERACLEAN SP 2022	0.5	Hydrophilic finish		
HELIT 2022	7.1	Hydrophobic finish		
SUPER HELIT IC	7.1	Antistatic finish		
PRECIOPTIC 18.22	10.5	Finishing detergent		Deoxidation, brightening ect
RODASTEL 30	0.5			
DECOMET	1.0	Citric acid passivation	Soaking	Free iron oxide removal
SCHUTZLACK NGL BLEUE	N.A.	Masking varnish	Spraygun or paintbrush	Water-soluble masking varnish
SCHUTZLACK 2005 SP L ROSE	N.A.			
SCHUTZLACK NGL 2002 ROSE	N.A.		Aerosol spray	
RUBIFIN N°4	N.A.	Solvent	Degreasing in vacuum or ultrasonic machines	Neat oil

¹ Requires an oil separator

² Suitable for any type of steel, can be used in surface preparation prior to passivation

³ Can be used in vacuum system

DE-OILING OF STAINLESS STEEL WATCH CASES AFTER MACHINING

DECOCLEAN 540, RODACLEAN 2018 and HELIT 2022

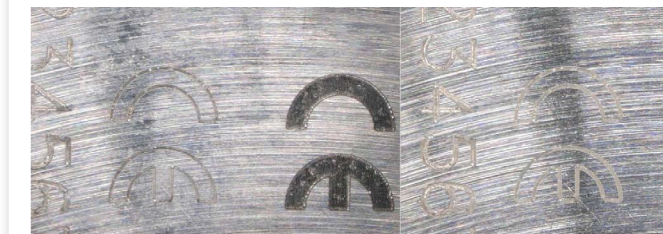
Process : Degreasing of parts with DECOCLEAN 540 or DECOSPRAY TM depending on oil. Cleaning grease residues with RODACLEAN 2018 and finishing with RODASTEL 30 to give a glossy appearance.



CLEANING WATCH CASES AFTER LASER ENGRAVING

GALVEX 20.01 and RODASTEL 30

Process : Removal of slag and deoxidation of engraving with GALVEX 20.01 and RODASTEL 30 finish.



CLEAN STAINLESS STEEL STRANDS BEFORE ASSEMBLY

GALVEX 20.02 and SUPER HELIT IC

Process : Cleaning of stainless steel strands with GALVEX 20.02 and temporary protection of parts during storage with SUPER HELIT IC.



CLEANING ASSEMBLED STAINLESS STEEL WATCH BANDS

RODAWEG CO SUPER, GALVEX 20.02 and CERACLEAN SP 2022

Process : Cleaning of complete stainless steel watch bands with RODAWEG CO super and GALVEX 20.02. Acid finish with CERACLEAN SP 2022 for shiny parts.



CLEANING OF GEM-SET WATCH BANDS

GALVEX 20.02 and PRECIOPTIC 18.22

Process : Cleaning of bracelets with synthetic rubies or diamonds with GALVEX 20.02 and PRECIOPTIC 18.22 finish, which adds antistatic properties to the surface.



TEMPORARY MACHINING PROTECTION

SCHUTZLACK ROSE or BLEUE

Process : Protective lacquer for watch cases during machining



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COMPATIBILITY

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 - Maraging
 - 20AP, H1, CK101, CK75
- Aluminium
- Copper alloys:
 - Bronze, CuBe,
 - Cuproaluminum, cupronickel
 - Brass (leaded and unleaded)
 - Nickel silver
- Gold: white, pink, yellow
- Platinum
- Titanium

PARTS

- Hands
- Pallets
- Balance
- Barrel
- Oscillating mass
- Pinions
- Bars
- Plate
- Wheels
- Ruby
- Screws

POLLUTIONS

- Oil, grease
- Polishing compounds
- Abrasives: satin-finish, microblasting
- Oxides
- Laser engraving
- Varnish, glue, lacquer
- Fingerprints, dusts

DETERGENTS, SOLVENTS, FINISHING AND SPECIFIC APPLICATIONS

PRODUCT	pH	TYPE	FUNCTION	APPLICATION/POLLUTION
DECOSPRAY TM	9.6	Detergent	Spray or ultrasonic cleaning	Neat oil
GALVEX 20.01	8.9		Ultrasonic cleaning	Polishing compounds, oil, light pollutions
GALVEX SU 737	7.2			
KORROSTOP 5000	12.3	Rinse additive	Soaking	Protection against corrosion
SCHUTZLACK NGL 2002 ROSE	N.A.	Masking varnish	Spraygun or paintbrush	Water-soluble masking varnish
ALLSTRIP	N.A.	Solvent	Ultrasonic cleaning	Wax, glue, varnish, lacquer
RUBIFIN N°4	N.A.		Ultrasonic degreasing	Neat oil
RUBIFIN N°10	N.A.		Degreasing in watchmaking machine	Wax, oxides, dusts
RUBIFIN N°3	N.A.			

¹ Requires an oil separator

SOLVENT CLEANING AFTER-SALES SERVICE

RUBIFIN N°10 and RUBIFIN N°3

- Process : Cleaning after parts rework with solvent and Greiner-type machine.



ULTRASONIC CLEANING AFTER-SALES SERVICE

GALVEX SU 737

- Process : Cleaning after parts rework with GALVEX SU 737 for protection during storage.



SPRAY CLEANING AFTER-SALES SERVICE

DECOSPRAY TM

- Process : Clean parts after reworking with DECOSPRAY TM.



CLEANING AND ANTI-CORROSION PROTECTION OF MOVEMENTS

GALVEX 20.01 and KORROSTOP 5000

- Process : Cleaning movements with GALVEX 20.01 and rinse with KORROSTOP 5000 to protect during storage.



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