



OPHTHALMIC OPTICS



ECOLOGICAL CLEANING SOLUTIONS



SWISS QUALITY



SURFACE ACTIVATION AND STRIPPING

Quality, reliability and expertise, applied to the surface activation of lenses prior to hard coating and for the removal of HC and AR coating

COMPATIBILITY

- Organic glass (1.5 to 1.74)
- Polycarbonate (1.59)
- Mineral glass (1.5 to 1.9)

TYPES OF PARTS BY INDEX

- 1.50 - CR39
- 1.53 - Trivex, PNX, Tribid
- 1.56 - Ormex
- 1.59 - PC
- 1.60 - MR8
- 1.67 - MR10

POLLUTIONS

- Organic compounds
- Abrasives
- Dust
- Finger marks

STRIPPING

- AR coating (stripping)
- HC lacquer (stripping)
- Mold pollution

SOLVENT, DETERGENTS, FINISHING

PRODUCTS	pH	TYPE	FUNCTION	APPLICATION/POLLUTION
STRIPCOAT AR	3.8	Stripping	Ultrasonic process	AR removal
OPTICAL 2010	12.9 (sol. 3%)			HC removal
NANOCLEAN TOP	14	Strong alkaline detergent		Surface activation, stripping of moulds
OPTICAL 10 L	5.5	Light acid detergent		Surface neutralisation
OPTICAL 30	0.5	Strong acid detergent		
NGL 17.40 P. SP.	9.3 (sol. 3%)	Light alkaline finishing detergent		Hydrophilic finish
NANOCLEAN 2018	9.5			

STRONG ALKALIS

for surface activation

▪ OPTICAL 2010

Powdered detergent, highly concentrated with sodium hydroxide, for the **activation of organic lens surfaces** or the removal of HC coatings in ultrasonic cleaning processes.

▪ NANOCLEAN TOP

Liquid detergent highly concentrated with sodium hydroxide, for the **activation of organic lens surfaces** in ultrasonic cleaning processes.



MILD ALKALIS

for finishing

▪ NANOCLEAN 2018

Mild alkaline universal liquid detergent. **Its excellent rinsability** allows it to be used for finishing prior to HC coating or PVD deposition.

▪ NGL 17.40 P. SP.

Universal powder detergent. **Its excellent rinsability** allows it to be used for finishing prior to HC coating or PVD deposition.

ACID FINISH

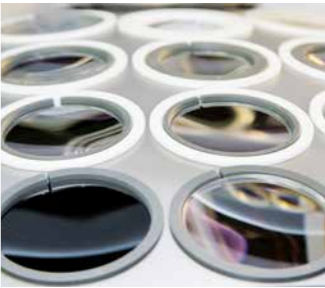
for the neutralisation of alkaline residues

▪ OPTICAL 10L

Light acidic liquid detergent for neutralizing and rinsing of alkaline detergents in ultrasonic processes. **Its excellent rinsability allows a hydrophilic finish**, perfectly adapted to surface preparation prior to HC coating or PVD deposition.

▪ OPTICAL 30

Strong acidic liquid detergent for neutralizing and rinsing of alkaline detergents in ultrasonic processes. **Its excellent rinsability allows a hydrophilic finish**, perfectly adapted to a surface preparation prior to HC coating or PVD deposition.



STRIPPING

for the removal of HC coatings and AR films

▪ STRIPCOAT AR

**Multilayered AR coatings** stripper for organic lenses and tools.

▪ OPTICAL 2010

Powdered detergent, **highly concentrated with sodium hydroxide**, for the removal of HC coatings.



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

EQUIPMENT

With our **UPC 3000**, ensure daily basis that your equipment is properly set up:

- Measurement of ultrasonic power in Watts/L
- Conductivity measurement
- Temperature measurement
- Detergent concentration measurement
- Measuring the quality of demineralized water (0.001 µS/cm to 200 µS/cm)





CLEANING AND SURFACE PREPARATION

Quality, reliability and expertise, applied to the surface preparation of ophthalmic lenses after cutting and polishing

COMPATIBILITY

- Plastic glass (index 1.5 to 1.74)
- Polycarbonate (index 1.59)
- Mineral glass (index 1.5 to 1.9)

TYPES OF PARTS BY INDEX

- 1.50 - CR39
- 1.53 - Trivex, PNx, Tribid
- 1.56 - Ormex
- 1.59 - PC
- 1.60 - MR8
- 1.67 - MR10

POLLUTIONS

- Cerium oxide
- Blocking alloy
- Blocking glue
- Inks
- Fingerprints
- Adhesives

SOLVENT, DETERGENTS, FINISHING

PRODUCTS	pH	TYPE	FUNCTION	APPLICATION/POLLUTION	
RUBIFIN N°4	N.A.	Solvent	Ultrasonic process	Marking inks, glues, adhesives	
ADDITIF NF4	13.7	Solvent-based detergent		Ultrasonic process	Cerium oxide, inks, alloy and blocking glue
OPTICAL 2021 <sup>1</sup>	14				
DECOSPRAY HK	11.7	Detergent	Brush cleaning machine <sup>2</sup>		
CEROWEG EXTRA	14		Ultrasonic process		
OPTICAL V	14				
OPTICAL XII	11.3				
NANOCLEAN 2018	9.5				
OPTICAL 30	0.5	Finishing detergent	Hydrophilic finish		
OPTICAL 10 L	5.5				

<sup>1</sup> Not compatible with polycarbonate      <sup>2</sup> Requires Butyldiglycol

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HYBRID DETERGENTS

for non-polar pollutions

▪ ADDITIF NF4

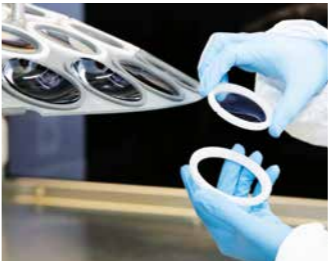
**Solvent-based** liquid detergent, used pure or diluted, or as an additive in an alkaline detergent, for the removal of marking inks from organic glass or polycarbonate in ultrasonic cleaning processes.

▪ OPTICAL 2021

**Solvent-based** liquid detergent, used pure or diluted for the removal of marking inks, glues, adhesives and polishing residues from organic glass in ultrasonic cleaning processes. Not compatible with polycarbonate.

▪ RUBIFIN N°4

**A3 solvent** for the removal of marking inks, glues and adhesives from organic and polycarbonate glass.



STRONG ALKALIS

for heavy pollutions

▪ CEROWEG EXTRA

Strong alkaline liquid detergent for the removal of abrasives in ultrasonic processes. **Compatible with all organic and mineral substrates** of high and low index as well as polycarbonate.

▪ OPTICAL V

Strong alkaline liquid detergent for the removal of abrasives in ultrasonic processes. **Compatible with all organic and mineral substrates** of high and low index as well as polycarbonate.

▪ OPTICAL XII

Alkaline liquid detergent based on phosphates for the removal of abrasives in ultrasonic processes. **Compatible with all organic and mineral substrates** of high and low index, as well as polycarbonate.

▪ DECOSPRAY HK

Non-foaming alkaline liquid detergent to be used in addition to butyldiglycol for the removal of polishing residues and inks in cleaning **brush machines**.

MILD ALKALIS

for finishing and rinsing

▪ NANOCLEAN 2018

Universal lightly alkaline liquid detergent for the cleaning of light pollution in ultrasonic process. **Compatible with all organic or mineral substrates** of high and low index, as well as polycarbonate. Its excellent rinsability also allows to be used for finishing.

ACID FINISH

for the neutralisation of alkaline residues

▪ OPTICAL 10L

Light acidic liquid detergent for **neutralizing** and rinsing basic detergents in ultrasonic process. Compatible with all organic and mineral substrates of high and low index, as well as polycarbonate. Its excellent rinsability allows a hydrophilic finish.

▪ OPTICAL 30

Strong acidic liquid detergent for **neutralizing** and rinsing basic detergents in ultrasonic process. Compatible with all organic and mineral substrates of high and low index, as well as polycarbonate. Its excellent rinsability allows a hydrophilic finish.



EQUIPMENT

With our **UPC 3000**, ensure daily basis that your equipment is properly set up:

- Measurement of ultrasonic power in Watts/L
- Conductivity measurement
- Temperature measurement
- Detergent concentration measurement
- Measuring the quality of demineralized water (0.001 µS/cm to 200 µS/cm)





CLEANING AND SURFACE PREPARATION

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

COMPATIBILITY

- Stainless steel
- Brass (leaded and unleaded)
- Zamak
- Rhodium, palladium
- Aluminium
- Nickel silver
- ABS, acetate
- Gold: yellow, white, pink

TYPE OF PARTS

- Eyewear:
  - Spectacle arms
  - Hinges
  - Spectacle frames

POLLUTIONS

- Oil, grease
- Polishing compounds
- Oxidation, firescale
- Fingerprint, dust
- Electroplating salts

DETERGENTS, SOLVENT, FINISHING AND SPECIFIC APPLICATIONS

PRODUCT	pH	TYPE	FUNCTION	APPLICATION/CONTAMINATION
RODACLEAN 2018	14	Detergent	Ultrasonic cleaning	Polishing compounds, soluble oil, light pollutions
GALVEX 20.31	10			
UNISON 1	10.9			
GALVEX 20.02	10			
GALVEX TM <sup>1</sup>	9.8			
HELIT 2022	7.1	Finishing detergent	Ultrasonic cleaning	Hydrophilic finish
GALVEX 18.08	9.5			Hydrophobic finish
RODASTEL 30	0.5			Deoxidation, brightening effect
SCHUTZLACK NGL 2002 ROSE	N.A.	Masking varnish	Aerosol spray	Water-soluble masking varnish
SCHUTZLACK 2005 SP L ROSE	N.A.		Spraygun or paintbrush	
RUBIFIN N°4	N.A.	Solvent	Degreasing in vacuum or ultrasonic machines	Neat oil

<sup>1</sup> Suitable for sensitive metals such as zamak or tin

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SOLVENT

for cutting oil removal

▪ RUBIFIN N°4

A3 solvent for degreasing in vacuum or ultrasonic process. **Its hydrocarbon-free formulation** does not leave any greasy film on the parts in vacuum process.

STRONG ALKALIS

for heavy pollutions

▪ GALVEX 20.31

Alkaline detergent that includes a solvent for the removal of polishing pastes, neat and soluble oils and protective lacquers. Also suitable for surface preparation before electroplating. **Compatible with brass and other copper alloys.**

▪ RODACLEAN 2018

Strong alkaline detergent for the removal of polishing pastes and soluble oils in ultrasonic processes. Particularly efficient on all grades of steel. **Not compatible with brass.**

MILD ALKALIS

for sensitive metals

▪ GALVEX 20.02

**Universal detergent**, compatible with all substrates for ultrasonic cleaning. Effective on polishing pastes and light oils, **rinses off easily** and also has a **brightening effect** on metals.

▪ GALVEX TM

**Universal** detergent for ultrasonic cleaning, **compatible with tin**. Also prevents galvanic corrosion or redeposition of dissolved copper on steel or aluminium.

▪ UNISON 1

**Universal** detergent for ultrasonic cleaning. Particularly effective on polishing pastes and light oils, also has a brightening effect on metals.

FINISHING

for rinsing, brightening and protection against oxidation

▪ GALVEX 18.08

Slightly alkaline finish, which leaves a **water-repellent film**. Increases the speed of the drying process.

▪ HELIT 2022

Universal detergent, suitable for any substrates, for ultrasonic cleaning finish. Excellent rinsability, **hydrophilic finish**.

▪ RODASTEL 30

Multipurpose acid finish: **deoxidation / brightening** of metals (steel, aluminium, brass and other copper alloys) and removal of firescale from laser engraving or welding.



SPECIFIC APPLICATIONS

for the protection of parts

▪ SCHUTZLACK ROSE

**Masking varnish** for protection of polished or satin-finished areas during machining or laser engraving operations. **Water-soluble** in a detergent solution. Available in aerosol, or in a pot for spraygun or paintbrush application.

EQUIPMENT

With our **UPC 3000**, ensure on a daily basis that your equipment is properly set up:

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- Measurement of the conductivity
- Temperature measurement
- Detergent concentration measurement
- Measuring the quality of demineralised water (0.001 µS/cm to 200 µS/cm)



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