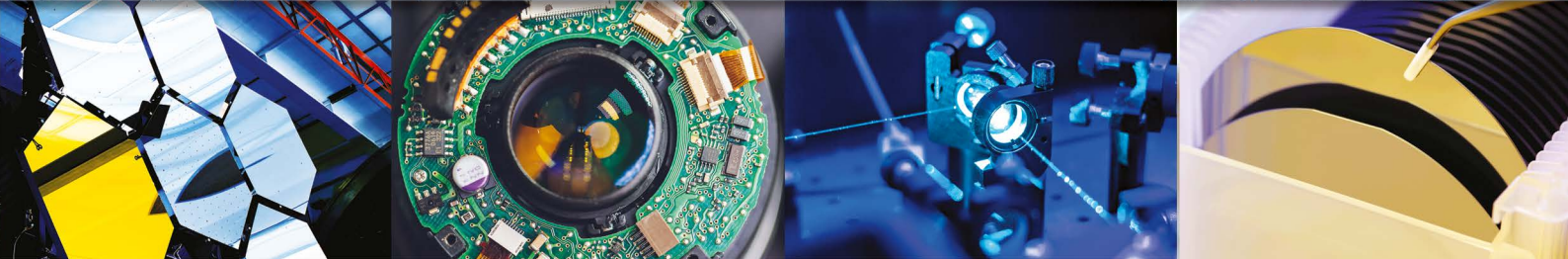




PRECISION OPTICS



ECOLOGICAL CLEANING SOLUTIONS

 SWISS QUALITY



CLEANING AND SURFACE PREPARATION

Quality, reliability and expertise applied to surface preparation of Crown and Flint precision lenses, IR and UV lenses and low thermal expansion materials prior to coating and/or assembly.

MATERIAL COMPATIBILITY

CROWN*

- FK
- PK
- BK
- BaK
- Borosilicate
- SK
- K
- LaK
- SSK
- ZK
- Fused silica

FLINT*

- BaLF
- KF
- LaSF
- LaF
- BaF
- BaSF
- LLF
- LF
- F
- SF
- KzFS

* N- type glass (lead and arsenic free)

UV

- Fused Silica (SiO₂)
- Calcium Fluoride (CaF₂)
- Magnesium Fluoride (MgF₂)
- Sapphire

IR

- Calcium Fluoride (CaF₂)
- Fused Silica (SiO₂)
- Germanium
- Magnesium Fluoride (MgF₂)
- Sapphire (Al₂O₃)
- Silicon (Si)
- Zinc selenide (ZnSe)
- Zinc Sulfide (ZnS)
- Chalcogenides

LTE MATERIALS*

- Silicon (Si)
- Sapphire
- Fused Silica (SiO₂)
- Quartz
- Zerodur®
- ULE® Ultra Low Expansion Glass
- BOROFLOAT®33
- N-BK7®
- Beryllium

* Low thermal expansion materials

TYPE OF PARTS

- Lenses:
 - Spherical
 - Aspherical
 - Concave
 - Convex
 - Planoconvex
- Mirrors
- Prisms
- Wafers
- Gyrolaser casings

SOLVENT, DETERGENTS, FINISHING

PRODUCTS	pH	TYPE	FUNCTION	APPLICATION/POLLUTION
ALLSTRIP	N.A.	Solvent	Ultrasonic cleaning	Blocking glue, pitch
DECOCLEAN 540 ^{1 2}	13.9	Detergent	Ultrasonic or spray cleaning	Cutting oil
OPTICAL 2021 ²	14		Abrasives, organic residues	
OPTICAL V	14		Abrasives, organic residues	
NANOCLEAN 2018 ²	9.5	Ultrasonic cleaning	Light pollutions, finger marks, particles	
GL 801 S	6.7		Hydrophilic finish	
OPTICAL 10 L ²	5.5	Finishing		
PRECIOPTIC 18.22 ²	10.5		Antistatic Finish	

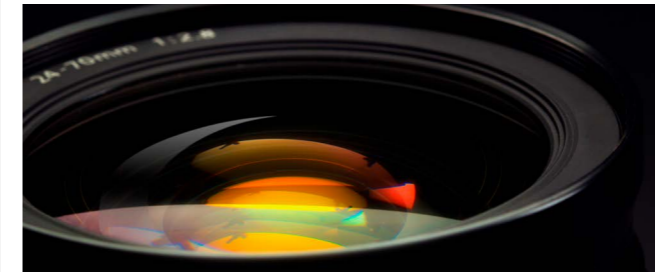
¹ Requires an oil separator

² Phosphates free

ELIMINATION OF CUTTING OILS FOR NON-SENSITIVE SUBSTRATES

DECOCLEAN 540 and NANOCLEAN 2018

- Process : Ultrasonic removal of cutting oil after cutting and beveling sapphire glass.



REMOVING BLOCKING GLUE ALLSTRIP and OPTICAL 2021

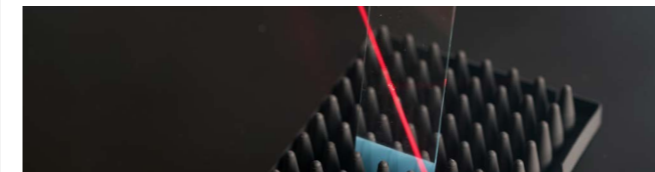
- Process : Ultrasonic removal of fusible adhesives after polishing plano-convex lenses.



REMOVING ABRASIVES FROM POLISHING FOR SENSITIVE SUBSTRATES

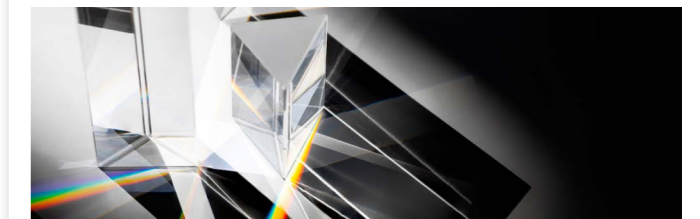
NANOCLEAN 2018, PRECIOPTIC 18.22 and OPTICAL 10L

- Process : Removal of cerium oxide after polishing Germanium, Silicon, Zinc selenide optics...



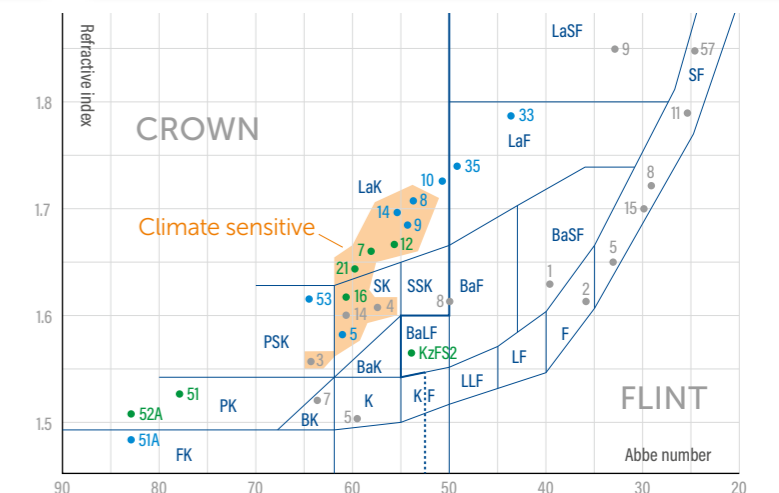
REMOVAL OF ABRASIVE POLISHING FOR NON-SENSITIVE SUBSTRATES

- Process : Removal of cerium oxide after double-sided polishing on BK-7 and Quartz glasses.



CONTACT NGL PRIOR TO ANY PROCESS SET UP ON HIGHLY SENSITIVE GLASS:

- Phosphate sensitive
 - LaK: 8, 9, 10, 14
 - LaF: 33, 35
 - SK: 5
 - PSK: 53
 - FK: 51A
- Alkali + Phosphate sensitive
 - LaK: 7, 12, 21
 - SK: 16
 - PK 51, 52A
 - KzFS : 2
- Climate sensitive



SUPPORT

- NGL Academy: training on precision cleaning, passivation, water treatment, and HSE regulation
- Application Center: 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



Find all our products and application notes specific to precision optics on our website.



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