



OPTICAL 2021

Highly alkaline, phosphate free and solvent-based liquid detergent used in ultrasonic cleaning for the removal of alumina and cerium oxide residues and blocking glues.



PRECISION OPTICS RANGE

FUNCTION	APPLICATION/POLLUTION
Ultrasonic cleaning	Blocking glues, abrasives

COMPATIBILITY

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| <ul style="list-style-type: none"> Photographic materials: <ul style="list-style-type: none"> – Crown and Flint glasses* – Borosilicate UV/IR materials: <ul style="list-style-type: none"> – Chalcogenides – Fused Silica – Calcium, magnesium fluorides | <ul style="list-style-type: none"> – Sapphire – Silicon (Si) – Zinc selenide (ZnSe) – Zinc Sulfide (ZnS) – Germanium <p><small>*Except climate and alkali sensitive materials. Please contact NGL before implementing a process.</small></p> |
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INGREDIENTS

- Strong alkalis, surfactants, solvent
- No phosphates
- No CMR compounds, REACH compliant

PHYSICAL AND CHEMICAL DATA

- pH concentrated: 14
- Density: 1.09
- Surface tension: 29.9 mN/m

PROCESS EXAMPLES

- Removal of blocking glue and polishing abrasives

CLEANING

OPTICAL 2021 RO or DI water Conc.: 5-100% Temp.: 40-55°C 104-131°F Time: 3-5 min <small>US</small>	OPTICAL 2021 RO or DI water Conc.: 5-100% Temp.: 40-55°C 104-131°F Time: 3-5 min <small>US</small>	RO WATER RINSE Temp.: 20-30°C 68-86°F Time: 1-2 min	DI WATER RINSE Temp.: 20-30°C 68-86°F Time: 1-2 min	HOT AIR DRYING
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- Removal of blocking glue, abrasives and final cleaning

CLEANING	CLEANING		FINISHING				
OPTICAL 2021 RO or DI water Conc.: 5-100% Temp.: 40-55°C 104-131°F Time: 3-5 min <small>US</small>	OPTICAL V RO or DI water Conc.: 3-5% Temp.: 40-60°C 104-140°F Time: 3-5 min <small>US</small>	RO WATER RINSE Temp.: 20-30°C 68-86°F Time: 2-3 min	NANOCLEAN 2018 RO or DI water Conc.: 1-3% Temp.: 40-60°C 104-140°F Time: 3-5 min <small>US</small>	RO WATER RINSE Temp.: 20-30°C 68-86°F Time: 1-2 min	DI WATER RINSE Temp.: 20-30°C 68-86°F Time: 1-2 min <small>US</small>	DI WATER RINSE Temp.: 20-30°C 68-86°F Time: 1-2 min	HOT AIR DRYING

ULTRASONIC CLEANING

Parameters for cleaning:

T°	+	%	+	Time	+	US
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23/11/22

INSTRUCTIONS FOR USE*

- Concentration: 5 to 100% according to the uses
- Temperature: 40 to 55°C (104 to 131°F)
- Time: 3 to 5 minutes

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

STORAGE CONDITIONS

- Keep the container hermetically sealed between 5°C and 20-30°C (41°F and 104°F) in a dry place.
- Always keep in packaging made from the same material as the original packaging (HDPE).



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

