

ADDITIONAL PRODUCTS TO MEET YOUR MANY CLEANING NEEDS

Today's complex cleaning tasks make it unlikely that any single cleaner will be effective for every job. International Products Corporation offers a line of specially-formulated products to meet a wide variety of requirements.

All the following products are aqueous concentrates sold in a variety of sizes. Each can deliver the critical precision cleaning needed to meet the most rigorous specifications for surface cleanliness. They are all unusually mild and safe for personnel and the environment.

MICRO-90®

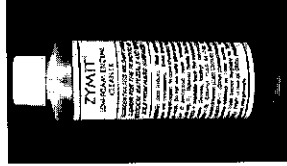
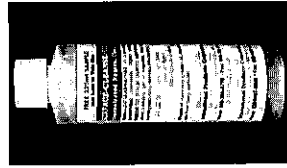
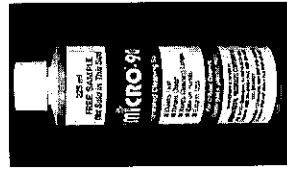
A multi-purpose cleaner best used in immersion, low-pressure-spray, and other low-agitation washing systems. Removes nearly every type of contaminant from almost any surface, with the possible exception of aluminum and other metals likely to react with an alkaline substance. Outstanding for cleaning lab glassware, stainless steel, and filter membranes. Superb in ultrasonic washing systems. (typical pH 9.5)

SURFACE-CLEANSE/930®

A nonionic detergent for meticulous cleaning of aluminum and other metals at risk to ionic surfactants. Cleans delicate items without harming them. Excellent for cleaning electronic components. Contains no chelants, so it won't bind with heavy metals in waste water. Can be used in manual and mild-agitation washing systems, including ultrasonic equipment. (typical pH 7.0 for 2% solution w/w)

ZYMIT®

Uses a unique formulation of enzymes and detergents to achieve broad cleaning powers. The enzymes break down the dirt and the detergents wash it away. Typically used to remove biological contaminants such as blood, tissue, mucous, feces, gelatins, and other soils containing protein and/or starch. Unsurpassed for cleaning medical instruments. Excellent for removing photosensitive gels from film-making machines. Compatible with metals and other materials. Can be used as a soaking solution or in almost any manual or machine-based washing system. (typical pH 7.7)



New or old, you can improve
the performance of your
machine-based washing
system with LF2100!

- Blended specifically for cleaning machines
- Easy-to-use liquid
- Cleans at low and high temperatures
- Low-foam
- Free rinsing
- Excellent in ultrasonic cleaners
- Mild (typical pH 9.7)
- No known health hazards



For more information
about machine washing with
LF2100™
contact us at:

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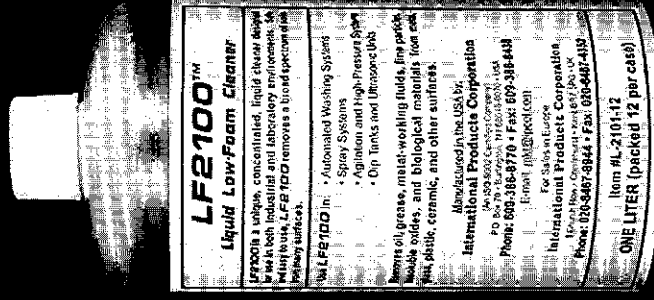
Printed in the U.S.A.

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The powerful
cleaning concentrate
designed to maximize
the performance
of machine-based
washing systems

LF2100™ Liquid Low-Foam Cleaner



LF2100™

Liquid Low-Foam Cleaner

LF2100 is a unique, concentrated, liquid clean degreaser that both industrial and laboratory environments can rely on. LF2100 removes a broad spectrum of oily and greasy soils from a wide variety of surfaces.

LF2100 is:
• Automated Washing Systems
• Spray Systems
• Agitation and High Pressure Wash
• Dip Tanks and Ultrasonics

Removes oil, grease, metal-working fluids, fine particulate matter, and biological materials from oil, metal, plastic, ceramic, and other surfaces.

Manufactured in the USA by:

International Products Corporation

P.O. Box 70, Burlington, NJ 08016-0070, USA

Phone: 609-386-8770 • Fax: 609-386-8438

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For Sales in Europe:

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Item #L-2101-12

ONE LITER (packed 12 per case)

LF2100™ liquid delivers the highest levels of cleanliness without the disadvantages of powders and gels.

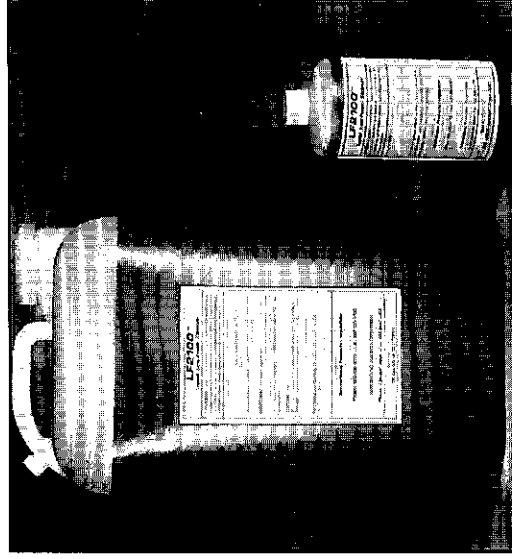
Obtain unmatched performance from your washing equipment!

Machine-based washing systems are vital elements in today's need for critically-clean surfaces. But even equipment costing many thousands of dollars is ultimately limited by the performance of the cleaning chemicals used. Until now, cleaning professionals had to tolerate powdered cleaners or messy gels that are very inconvenient to use, or work with harsh liquids that are unsafe for personnel and the environment. Now there is LF2100, a specially-formulated liquid that is mild but powerful enough to let your washer deliver its peak performance.

Special ingredients matched to the special needs of machine washing

The breakthrough formulation of LF2100 makes it the cleaner of choice for automatic washing machines and other high-pressure or high-agitation applications. It is powerful, low-foam, and free rinsing to achieve superior soil removal and residue-free surfaces. No matter if your washing system is rotary drum, barrel, high- or low-pressure spray, conveyor, immersion, vertical, turntable, or any other type of washer. No matter if your equipment is old or new. Cleaning results can be improved with LF2100.

LF2100 contains anionic, nonionic, and amphoteric ingredients selected to remove a wide range of soils from many different surfaces. Contaminants such as greases, oils, waxes, particulates, oxides, biological



materials, adhesives, mineral scales, tars, inks, clays, cutting fluids, coolants, hydraulic fluids, rolling oils, drawing compounds, and many other soils can be removed from glass, stainless steel and other metals, ceramics, plastics, and gemstones. Heavy-duty fabrics may also be cleaned. There is hardly a cleaning job that's not right for LF2100.

A liquid that's powerful but mild

As a liquid, LF2100 allows more precise mixing and dispensing than powders or gels. It's easy to give each wash cycle the exact amount of cleaner it needs for best results. And because LF2100 mixes instantly and completely, you'll never find caked cleaner that didn't dissolve in the wash water.

What's more, LF2100 is unusually mild considering its powerful cleaning action. With a typical pH of 9.7, it is safe for personnel, the items being cleaned, and the cleaning equipment. For shipping, storage, and disposal purposes, LF2100 is a non-hazardous material under U.S. Federal regulations. The product is non-flammable, and meets USDA guidelines for incidental contact with food-processing equipment. When used as recommended, there are no known health hazards connected to LF2100.

Performance flexibility to meet your specific needs

LF2100 produces top results in almost any type of water. It works well at room temperatures, so it is energy efficient. It remains effective up to 93°C (200°F), so it can take the heat required to remove the toughest soils. And hard or soft water makes no difference to LF2100. It is effective in both, so there is no need to pre-treat water before washing. Whatever the conditions, LF2100 delivers the performance you need.

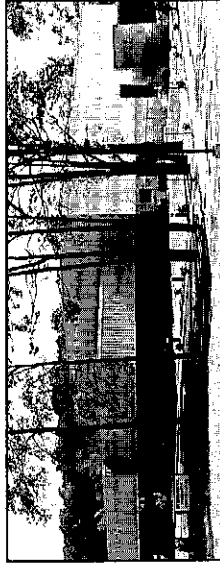
Concentrated for cost effectiveness

Since it is a concentrate, a little LF2100 goes a long way. Adding only 1—2% of the concentrate to water makes a solution effective for most cleaning tasks. Or, you can follow the operating instructions of the washing equipment manufacturers. LF2100 is available in a range of metric sizes, and has a guaranteed shelf life of one year when stored properly.

Test a free sample

Now you can match LF2100 against your specific cleaning problems. Call, fax or e-mail us today, and a free sample will be on its way to you within one working day. Free assistance is always available from our product specialists. We are here to help you.

**INTERNATIONAL PRODUCTS CORPORATION:
AN ISO-CERTIFIED COMPANY OFFERING
OVER 75 YEARS OF CHEMICAL EXCELLENCE**



Founded in 1923, International Products Corporation produces and markets a line of specialty chemicals with emphasis on cleaners and lubricants. The company operates from a modern, custom-designed facility. Situated on a four-acre site, this 20,000 square-foot building incorporates state-of-the-art processing, packaging, and warehousing operations. It is conveniently located near rail, air, and sea transportation for fast shipment. Most orders are shipped within two business days.

*For a sample of LF2100 with no cost and no obligation, contact us today:
• Phone: 609/386-8770 • Fax: 609/386-8438 • E-Mail: MKT@IPCOL.COM*

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2% LF2100™ LIQUID LOW-FOAM CLEANER ASTM F483-90: METAL COMPATIBILITY

Conclusion: LF2100 was found to be compatible with all of the metals tested below.

%Change in Mass, Room Temperature									
Immersion Time	Aluminum 3105	Cold Rolled Steel, 1010	Stainless Steel 304	Bronze Alloy 220	Titanium Alloy, 8% Mn	Monel Ni/Cu	Copper Alloy CA 110	Brass Alloy 360	Beryllium Copper CDA 172
24 Hours	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%
288 Hours	-0.2%	-0.1%	0.0%	-0.1%	0.0%	0.0%	-0.1%	-0.2%	- 0.2%

%Change in Mass, 40°C									
Immersion Time	Aluminum 3105	Cold Rolled Steel, 1010	Stainless Steel 304	Bronze Alloy 220	Titanium Alloy, 8% Mn	Monel Ni/Cu	Copper Alloy CA 110	Brass Alloy 360	Beryllium Copper CDA 172
24 Hours	-0.5%	-0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%
288 Hours	-0.5%	-0.2%	0.0%	-0.1%	0.0%	0.0%	-0.3%	-0.2%	- 0.3%

Tap Water (Control Samples)									
%Change in Mass, 40°C									
Immersion Time	Aluminum 3105	Cold Rolled Steel, 1010	Stainless Steel 304	Bronze Alloy 220	Titanium Alloy, 8% Mn	Monel Ni/Cu	Copper Alloy CA 110	Brass Alloy 360	Beryllium Copper CDA 172
24 Hours	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
288 Hours	0.0%	-1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

NOTE: The corrosion inhibition on 1010 cold rolled steel can be seen by comparing the mass-loss values of the LF2100 solutions to the tap-water values.

Test data is provided for comparison purposes only. Individuals should conduct their own tests for compatibility verification.

Metal Coupons

1. Aluminum 3105 H24
2. Cold Rolled Steel, 1010
3. Stainless Steel, 304-2B
4. Commercial Bronze Alloy 220
5. Titanium Alloy, 8%Mn, Mil-T-9046, Type IIIA
6. Nickel/Copper Monel 400, QQ-N281, Class A
7. Copper Alloy CA-110, QQ-C-576, Annealed, ETP
8. Brass Alloy 360, leaded, QQ-B-626, Comp. 360 bar
9. Beryllium Copper CDA 172

001010

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2% LF2100™ LIQUID LOW-FOAM CLEANER ASTM D543-95: PLASTIC COMPATIBILITY

Conclusion: LF2100 was found to be compatible with all of the plastics tested below.

PRACTICE A, PROCEDURE I: 24-HOUR IMMERSION AT ROOM TEMPERATURE

	Polyurethane Medium Hardness	Polyurethane Extra Hardness	Acrylic	High Density Polyethylene	Polycarbonate	Poly- phenylene Ether (PPO)	Acrylonitrile Butadiene Styrene
Δ Mass	+ 1.1%	+ 0.5%	+ 0.2%	0.0%	+ 0.1%	0.0%	+ 0.1%
Δ Surface Area	+ 0.1%	0.0%	0.0%	- 0.1%	0.0%	0.0%	0.0%
TAP WATER (CONTROL SAMPLES)							
Δ Mass	+ 0.9%	+ 0.5%	+ 0.3%	0.0%	+ 0.1%	+ 0.1%	+ 0.2%
Δ Surface Area	0.0%	0.0%	0.0%	0.0%	0.0%	- 0.1%	- 0.1%

PRACTICE B: 1% STRAIN FOR 24 HOURS, WET-PATCH METHOD

	Polyurethane Medium Hardness	Polyurethane Extra Hardness	Acrylic	High Density Polyethylene	Polycarbonate	Poly- phenylene Ether (PPO)	Acrylonitrile Butadiene Styrene
Appear- ance	Equal to Control	Equal to Control	Small amount of crazing	Equal to Control	Equal to Control	Equal to Control	Equal to Control
1% STRAIN FOR 24 HOURS, DRY (CONTROL SAMPLES)							
Appear- ance	No Change	No Change	No Change	No Change	No Change	No Change	Some crazing

Test data is provided for comparison purposes only. Individuals should conduct their own tests for compatibility verification.

Plastic Coupons

1. Polyurethane, Medium Hardness Duro 95A, (Metaspec)
2. Polyurethane, Extra Hardness, Duro 75D, (Metaspec)
3. Acrylic (Lucite) (Dupont)
4. HDPE – High Density Polyethylene (Gulf Oil Chemical)
5. Polycarbonate (Sheffield Plastics)
6. Polyphenylene Ether, Modified PPO (Noryl), MIL-P-46129 (Black), (Borg Warner)
7. Acrylonitrile-Butadiene-Styrene (ABS) (Allied Resinous Products)

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