

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 specialty cleaning products formulated to meet a wide variety of requirements.

All the following products are aqueous concentrates sold in a range 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, and meet USDA guidelines for incidental contact with food-processing equipment.

MICRO-90® Concentrated Cleaning Solution

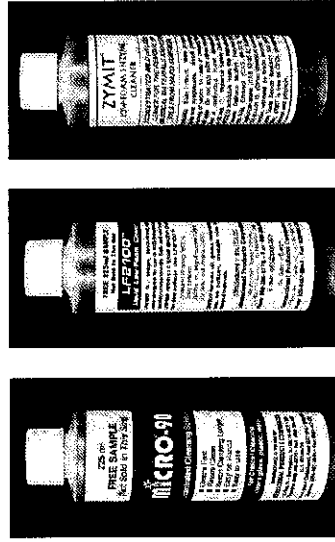
A powerful multi-purpose cleaner best used in immersion, low-pressure-spray, and other low-agitation washing systems. Removes nearly every type of contaminant from almost any surface. Outstanding for cleaning lab glassware, stainless steel, and filter membranes. Superb in ultrasonic washing systems. (typical pH 9.5)

LF2100™ Liquid Low-Foam Cleaner

Specially blended to deliver high-performance cleaning in automatic washing machines, spray systems, and other high-agitation applications. Removes a wide range of soils from glass, stainless steel and other metals, ceramics, plastics, and gemstones. Heavy-duty fabrics may also be cleaned. Effective in soft and hard water. Works well in room-temperature water as well as water heated to 66°C (150°F), (typical pH 9.7)

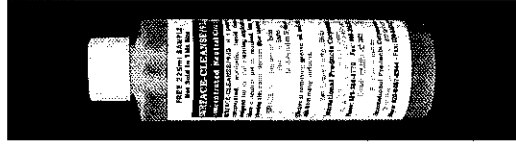
ZYMIT® Low-Foam Enzyme Cleaner

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, sebum, mucus, 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 7.5)



When you need a strong cleaner that's gentle on critical surfaces, use Surface-Cleanse/930!

- Superior cleaning power
- Nonionic surfactants
- Silicate free
- No etching
- Low conductivity
- Safe for aluminum
- No chelants
- No soap scum in hard water
- Negligible VOCs
- Cleans at low and high water temperatures
- Excellent in ultrasonic cleaners
- Easy-to-use liquid
- Economical
- Safe



For more information about nonionic, pH-neutral cleaning with SURFACE-CLEANSE/930®, contact us at:
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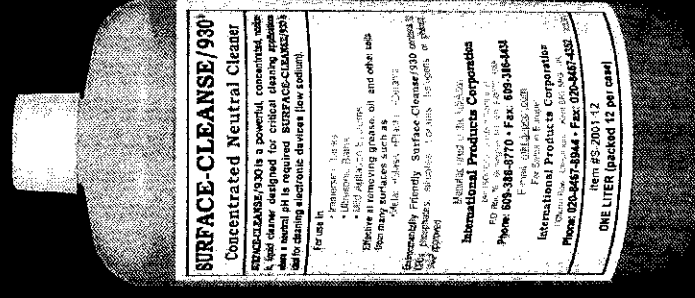
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SURFACE- CLEANSE/930®

Concentrated Neutral Cleaner



*The super-effective
cleaner that's
extra gentle and
free of interfering
residues*

NEW SURFACE-CLEANSE/930®:

A SUPERIOR CLEANER WITHOUT CLEANING SIDE EFFECTS!

If your present cleaner...

- *fails to remove tough contaminants,*
 - *damages underlying surfaces,*
 - *causes poor-fitting parts by removing surface layers,*
 - *leaves interfering residues,*
- try Surface-Cleanse/930, the complete solution to all these problems.*

A liquid cleaner with unsurpassed power and gentleness

New Surface-Cleanse/930 is the result of extensive research. It is nonionic and pH-neutral, so it won't damage or remove surfaces—or leave conductive residues. Yet, it delivers a powerful cleaning action usually available only from much harsher products.

Surface-Cleanse/930 is exceptional at removing organic soils such as petroleum, animal, and vegetable oils; grease; wax; paint; and fingerprints. It will also get rid of inorganic soils including scale, oxide and metallic residues; polishing and grinding compounds; rust preventatives; solder flux; and miscellaneous shop dusts.

Surfaces on which this cleaner can be used include glass, metal, ceramic, plastic, and gemstone. It is especially useful in preparing metals for further treatment (e.g., plating).

As a liquid, Surface-Cleanse/930 offers advantages over powders and gels. It is easier and more precise to mix and disperse, and there is no dust or caking. Its superior wetting ability also makes it fast acting.

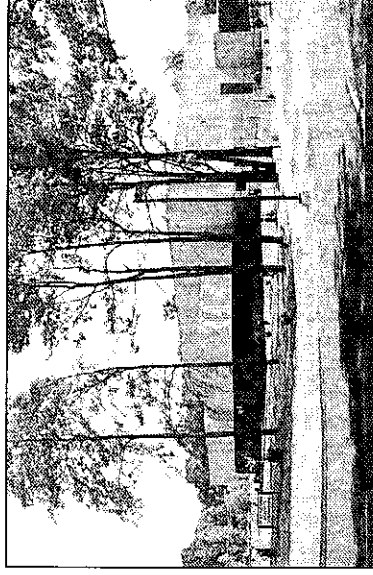
For all these reasons, Surface-Cleanse/930 is the cleaner of choice for applications such as electronic, optical, pharmaceutical, and general manufacturing; metal finishing; clean rooms; analytical, clinical, and research laboratories; food processing systems; plant maintenance; and many others.

Surface-Cleanse/930 is also environmentally friendly. It contains no CFCs, phosphates, silicates, borates, halogens, or phenols. Since Surface-Cleanse/930 contains no ingredients on the SARA Title III list, used cleaning solution can usually be discharged into sewer systems. Additionally, it contains no chelants, so it won't bind with heavy metals in waste water. This could help avoid additional treatment steps for discharge streams. Surface-Cleanse/930 is a SNAP-approved replacement for volatile solvents and other cleaners that damage the environment.

Try a free sample

See for yourself how cleaning with Surface-Cleanse/930 can help you assure on-spec performance of the items you clean. 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.

Free rinsing to prevent residues

Surface-Cleanse/930 ingredients are scientifically selected to prevent the formation of a residue. There are no silicates of any type to cling to surfaces. The surfactants used are highly soluble in water, so they can be easily washed away. The wetting action generated allows the cleaning solution to sheet off the surface rather than dry in droplets that can leave residues. The result is that all traces of Surface-Cleanse/930 can be completely removed by proper rinsing techniques.

Non-conductive and pH neutral for fail-safe performance

The special formulation of Surface-Cleanse/930 provides an extra measure of safety. Since the surfactants are nonionic, they are poor conductors of electrical current. Also, sodium content is minimal. The chance that an unwanted electrical pathway will result from a Surface-Cleanse/930 residue is thus very small. This characteristic makes it very good for cleaning many electronic components.

What's more, Surface-Cleanse/930 is a neutral solution (typical pH 7.0). That eliminates the surface damage typically caused by an acid or alkaline cleaner. So Surface-Cleanse/930 is safe for cleaning aluminum, nickel, lead, zinc and other vulnerable metals. Being pH neutral also makes the cleaner safe for all kinds of delicate items. For example, cleaning filter membranes with Surface-Cleanse/930 can help avoid their premature failure.

Economical, easy, and safe to use

Surface-Cleanse/930 comes highly concentrated in a variety of metric sizes for economy and convenience in handling and storage. Adding one liter of the concentrate to water produces 200 liters of solution that is effective for most cleaning tasks. You can use manual or automated methods to clean with Surface-Cleanse/930 including: soaking, dipping, brushing, low-pressure spraying, flushing, and mild agitation. Heating the solution will speed its action, as will the use of ultrasonics.

Since Surface-Cleanse/930 is nonionic, it can be used in hard water without forming a soap scum. Its ability to clean in hard water can also save the cost of pre-treating the cleaning water. It works well at room temperature, so it is energy efficient. It remains effective when heated up to 66°C (150°F).

Surface-Cleanse/930 is not corrosive or caustic, so it is safe for personnel and cleaning equipment. Under US Federal regulations for shipping, storage, and disposal, it is not a hazardous material. 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.

For a sample of SURFACE-CLEANSE/930® 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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SURFACE-CLEANSE/930® CONCENTRATED NEUTRAL CLEANER ASTM F483-90: METAL COMPATIBILITY

Conclusion: SURFACE-CLEANSE/930 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	Be-Copper CDA 172
24 Hours	0.0%	- 0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
288 Hours	0.0%	- 0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

%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	Be-Copper CDA 172
24 Hours	0.0%	- 0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
288 Hours	0.0%	- 1.0%	0.0%	-0.1%	0.0%	0.0%	- 0.1%	-0.1%	- 0.1%

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%

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,

011109

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SURFACE-CLEANSE/930® CONCENTRATED NEUTRAL CLEANER ASTM D543-95: PLASTIC COMPATIBILITY

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

SURFACE-CLEANSE/930® CONCENTRATED NEUTRAL CLEANER									
	PVC	Poly-propylene	Polyurethane Medium Hardness	Polyurethane Extra Hardness	Acrylic	HDPE	Polycarbonate	PPO	ABS
Δ Mass	0.0%	0.0%	+ 1.5%	+ 0.5%	+ 0.2%	0.0%	+ 0.1%	0.0%	+ 0.2%
Δ Surface Area	-0.1%	0.0%	+ 0.1%	0.0%	0.0%	0.0%	0.0%	- 0.9%	0.0%
TAP WATER (CONTROL SAMPLES)									
Δ Mass	0.0%	0.0%	+ 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%	0.0%	0.0%	- 0.1%	- 0.1%

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

SURFACE-CLEANSE/930® CONCENTRATED NEUTRAL CLEANER									
	PVC	Poly-propylene	Polyurethane Medium Hardness	Polyurethane Extra Hardness	Acrylic	HDPE	Polycarbonate	PPO	ABS
Appearance	Equal to Control	Equal to Control	Equal to Control	Equal to Control	Small amount of crazing	Equal to Control	Small amount of crazing	Crack	Crack
1% STRAIN FOR 24 HOURS, DRY (CONTROL SAMPLES)									
Appearance	No Change	No Change	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. PVC – Polyvinyl Chloride (Metaspec)
2. Polypropylene (Metaspec)
3. Polyurethane, Medium Hardness Duro 95A, (Metaspec)
4. Polyurethane, Extra Hardness, Duro 75D, (Metaspec)
5. Acrylic (Lucite) (Dupont)
6. HDPE – High Density Polyethylene (Gulf Oil Chemical)
7. Polycarbonate (Sheffield Plastics)
8. PPO, Modified - Polyphenylene Ether, (Noryl), MIL-P-46129 (Black), (Borg Warner)
9. ABS - Acrylonitrile-Butadiene-Styrene (Allied Resinous Products)

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