

INDUSTRY/APPLICATION KEY CONCERNS	ARTICLES CLEANED/SOILS REMOVED	CLEANING METHOD	CLEANER: Powder	Liquid
<b>Healthcare/Veterinary</b> Effective preparation for sterilization, longer instrument life. Reduced waste.	Surgical, anaesthetic, and examining instruments and equipment. Catheters and tubes.	Manual, ultrasonic, soak	ALCONOX	LIQUINOX
		Machine washer, sani-sterilizer	ALCOJET	DETOJET
	Blood, body fluids, tissue on instruments.	Manual, ultrasonic, soak	TERGAZYME	
<b>Pharmaceutical/Medical Device/ Biotechnology</b> Passing cleaning validation for FDA good manufacturing practices. Stainless steel, glass, plastic, elastomer cleaning.	Titanium dioxide, petrolatum, oils, emulsions, ointments, carbopols, lacquers, zinc oxides, proteins, steroids, alcohols, sugars, and Eudragit* (L/S/L30/D55/NE30D) polymers.	Manual, ultrasonic, soak	ALCONOX	LIQUINOX
		Machine washer, power wash, CIP	ALCOJET TERGAJET (p-free)	SOLUJET
	Inorganic residues, salts, metallics, pigments. Eudragit* (E/RL/RS/E100) polymers, amphoteric, coatings, amines, ethers, starches, alkaloids.	Manual, ultrasonic, soak		CITRANOX
		Machine washer, power wash, CIP		CITRAJET
	Protein/ferment residues. R/O, U/F membranes.	Manual, ultrasonic, soak	TERGAZYME	SOLUJET
<b>Laboratory/Environmental</b> Reproducible results, no interfering residues, extending equipment life. Maintaining laboratory accreditation. Laboratory safety.	Glass, metal, plastic labware, ceramics, tissue culture, porcelain, clean rooms, animal cages, bioreactors, tubing, benches, safety equipment.	Manual, ultrasonic, soak	ALCONOX	LIQUINOX (p-free)
		Machine, power spray, labware washer, washer-sterilizer, cage-washers	ALCOJET TERGAJET (p-free)	DETOJET SOLUJET (p-free)
	Tubes, reusable pipets.	Siphon-type washer-rinsers	ALCOTABS (tablet)	
	Microbiology, water lab, and environmental sampling. Phosphate-sensitive labware. EPA procedures. (Acid for water rinse cycle.)	Field, manual, ultrasonic, soak	TERGAJET	LIQUINOX
		Machine washer, labware washer	TERGAJET	SOLUJET-base CITRAJET-acid
	Radioactive equipment/contaminants. Stopcock grease.	Manual, ultrasonic, soak	ALCONOX	LIQUINOX
		Machine washer, warewasher	ALCOJET	SOLUJET
	Trace metals, metal oxides, scale, salts, starches, amines.	Manual, ultrasonic, soak		CITRANOX
		Machine washer, warewasher		CITRAJET
	Proteinaceous soils, biowastes, tissue, blood and other body fluids, fermentation residues.	Manual, ultrasonic, soak	TERGAZYME	
		Glassware washer	ALCOJET	SOLUJET
	<b>Metalworking/Precision Manufacturing/Optics</b> Clean parts. Avoiding volatile solvents, strong acids, and other hazardous chemicals.	Glass, ceramic, porcelain, stainless steel, plastic, rubber. Oils, chemicals, particulates.	Manual, ultrasonic, soak	ALCONOX
		Machine washer, power wash	ALCOJET TERGAJET (p-free)	DETOJET SOLUJET (p-free)
Aluminum, brass, copper, and other soft metal parts. Oils, chemicals, particulates (acid for oxides, salts, buffing compounds).		Manual, ultrasonic, soak	ALCONOX TERGAJET (p-free)	LIQUINOX-base CITRANOX-acid
		Parts washer, power wash	ALCOJET TERGAJET (p-free)	SOLUJET-base CITRAJET-acid
Inorganics, metallic complexes, trace metals and oxides, scale, salts, metal brightening.		Manual, ultrasonic, soak		CITRANOX
		Parts washer, power wash		CITRAJET
Silicone oils, mold-release agents, buffing compounds.		Manual, ultrasonic, soak	ALCONOX	CITRANOX
		Parts washer, pressure spray	ALCOJET	SOLUJET
Delicate substrates/neutral for waste.		Manual, ultrasonic, soak		LUMINOX
		machine wash, pressure spray		(neutral pH)

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<b>Electronics</b> Avoid conductive residues, avoid CFCs, pass cleaning criteria.	Circuit boards, assemblies, screens, parts, conductive residues, resins, rosins, fluxes, particulates, salts.	Manual, ultrasonic, soak machine washer, power spray board and screen washers		DETERGENT 8
	Ceramic insulators and components.	Manual, ultrasonic, soak Parts washers	ALCONOX ALCOJET	LIQUINOX SOLUJET
<b>Foodservice &amp; Food Manufacturing</b> Avoid interfering residues on food-contact equipment and effectively remove soils commonly found in food operations. (For complete foodservice detergent selection guide, visit <a href="http://AlconoxFoodservice.com">AlconoxFoodservice.com</a> )	Stainless steel, glass, and food production equipment.	Manual, ultrasonic, soak Machine wash, pressure wash, CIP	ALCONOX ALCOJET	LIQUINOX
	Oxides, scale, trace metals, salts, milkstone and corrosion.	Manual, ultrasonic, soak Machine wash, pressure wash, CIP		CITRANOX CITRAJET
	Filter membranes, proteins, biofouling.	Manual, ultrasonic, soak	TERGAZYME	
<b>Cosmetics</b> Avoid cross-contamination. Passing cleaning validation for FDA good manufacturing practices. Stainless steel, glass, plastic, elastomer cleaning.	Product contact surfaces (acids for pigments and salts).	Manual, ultrasonic, soak	ALCONOX	DETONOX-base CITRANOX-acid
		Parts washers, power spray	ALCOJET	SOLUJET-base CITRAJET-acid
<b>Nuclear</b> Avoid waste interference.	Reactor cavities, pipes, tools, protective equipment.	Manual, soak, spray		DETERGENT 8



### Alconox, Inc. Provides Validation Support and Expertise

Because Alconox, Inc. is a supplier to companies requiring exacting levels of quality control and technical service, each product is tested by lot number, with Certificates of Analysis available to end-users with quality control or regulatory-compliance requirements.

Support for regulatory-compliant cleaning validations includes lot number traceability of all cleaners and ingredients, cleaner toxicity and reactivity/degradation information, shelf-life testing, residue sampling, detection methods and written cleaning procedures.

As a leader in the field of critical cleaning, Alconox, Inc. can provide valuable consulting and information to vendors, suppliers, and clients in many industries who wish to establish cleaning validation methods and procedures.