

INDUSTRY / APPLICATION KEY CONCERNS	ARTICLES CLEANED/SOILS REMOVED	CLEANING METHOD	CLEANER: Powder	Liquid
Laboratories 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 (p-free)	LIQUINOX (p-free)
		Machine washer, labware washer	TERGAJET (p-free)	SOLUJET-base CITRAJET-acid
	Radioactive equipment/contaminants. Stopcock grease.	Manual, ultrasonic, soak	ALCONOX	DETONOX
		Machine washer, warewasher	ALCOJET	KEYLAJET
	Trace metals, metal oxides, scale, salts, starches, amines.	Manual, ultrasonic, soak		CITRANOX (p-free)
		Machine washer, warewasher		CITRAJET (p-free)
	Proteinaceous soils, biowastes, tissue, blood and other body fluids, fermentation residues.	Manual, ultrasonic, soak	TERGAZYME	DETOJET
Glassware washer		ALCOJET	DETOJET	
		TERGAJET (p-free)	SOLUJET (p-free)	
Medical Device Manufacturing Passing cleaning validation for FDA good manufacturing practices, EU regulations and similar requirements. Stainless steel, titanium, plastics and other device substrates.	Cutting and machining oils, lubricants, mold release, environmental residue.	Manual, ultrasonic, soak	ALCONOX	LIQUINOX (p-free) DETONOX
		Machine washer, power wash, CIP	ALCOJET TERGAJET (p-free)	SOLUJET (p-free)
	Inorganic residues, salts, metallics, oxidation.	Manual, ultrasonic, soak		CITRANOX (p-free)
		Machine washer, power wash, CIP		CITRAJET (p-free) SOLUJET (p-free)
	Reprocessing: protein, organic, biologic films and related residues.	Manual, ultrasonic, soak	TERGAZYME	DETOJET
		Machine washer, power wash, CIP	ALCOJET	
Pharmaceutical Passing cleaning validation for FDA good manufacturing practices, EU regulations and similar requirements. Stainless steel, elastomers, glassware and other pharma substrates.	Titanium dioxide, petrolatum, oils, emulsions, ointments, carbopols, lacquers, zinc oxides, steroids, alcohols, sugars, and Eudragit* (L/S/L30/D55/NE30D) polymers.	Manual, ultrasonic, soak	ALCONOX	LIQUINOX (p-free)
		Machine washer, power wash, CIP	ALCOJET TERGAJET (p-free)	SOLUJET (p-free)
	Inorganic residues, salts, metallics, pigments. Eudragit* (E/RL/RS/E100) polymers, amphoteric, coatings, amines, ethers, starches, alkaloids.	Manual, ultrasonic, soak		CITRANOX (p-free)
		Machine washer, power wash, CIP		CITRAJET (p-free)
Biotech/Biopharma Passing cleaning validation for FDA good manufacturing practices, EU regulations and similar requirements. Stainless steel, elastomers, glassware, polymeric filter membranes and other biopharma substrates.	Inorganic residues, salts, buffering solutions.	Manual, ultrasonic, soak		CITRANOX (p-free)
		Machine washer, power wash, CIP		CITRAJET (p-free) SOLUJET (p-free)
	Protein, organic, cellular and fermentation residues. R/O, U/F membranes.	Manual, ultrasonic, soak	ALCONOX TERGAZYME	LIQUINOX (p-free) DETOJET
		Machine washer, power wash, CIP	ALCOJET	DETOJET SOLUJET (p-free)

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Healthcare/Veterinary Effective preparation for sterilization, longer instrument life. Reduced waste.	Surgical, anaesthetic, and examining instruments and equipment. Catheters and tubes.	Manual, ultrasonic, soak Machine washer, sani-sterilizer	ALCONOX ALCOJET	LIQUINOX (p-free) DETOJET
	Blood, body fluids, tissue on instruments.	Manual, ultrasonic, soak	TERGAZYME	DETOJET
	Electronics 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	
Ceramic insulators and components.		Manual, ultrasonic, soak	ALCONOX	LIQUINOX (p-free) LUMINOX (neutral pH)
		Parts washers	ALCOJET	SOLUJET (p-free) LUMINOX (neutral pH)
Cosmetics 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). Titanium dioxide, petrolatum, oils, emulsions, ointments, carboxypolymers, lacquers, zinc oxides.	Manual, ultrasonic, soak	ALCONOX	DETONOX-base CITRANOX-acid
		Parts washers, power spray	ALCOJET	SOLUJET-base CITRAJET-acid KEYLAJET-base
Optics 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	LIQUINOX (p-free)
		Machine washer, power wash	ALCOJET TERGAJET (p-free)	DETOJET SOLUJET (p-free)
	Delicate substrates/neutral for waste.	Manual, ultrasonic, soak Machine washer, pressure spray		LUMINOX (neutral pH)
Cannabis Critically clean cannabis, CBD and related botanical labware, glassware, instrumentation, and processing and extraction equipment, is vital. Ensures strain to strain, and batch to batch processing is kept clean and contaminant free.	Glassware, processing tools, extraction vessels, boiling flasks, and clean-in-place (CIP) manufacturing equipment. Sticky oils, waxes, and resins.	Manual, ultrasonic, soak	ALCONOX	LIQUINOX (p-free) DETONOX
		Parts washers, power spray	ALCOJET	KEYLAJET
	Irrigation lines, pesticide and organic water build up.	Manual, ultrasonic, soak	TERGAZYME	
Photovoltaic Thin film solar module manufacturing requires clean glass and metal substrates for optimum yield.	Glass and metal substrates.	Manual, ultrasonic, soak		LIQUINOX (p-free)
		Machine wash, pressure wash, CIP		DETOJET
	Removal of salt and inorganic buildup.	Manual, ultrasonic, soak		CITRANOX (p-free)
		Machine wash, pressure wash, CIP		CITRAJET (p-free)

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Food & Beverage Manufacturing Food and beverage processing equipment must be critically cleaned per FDA and related requirements ensuring safe, contamination free products, and prolonging of equipment life.	Stainless steel, food contact equipment, industrial fryers/grease buildup, oils, and food residues.	Manual, ultrasonic, soak	ALCONOX	LIQUINOX (p-free) DETONOX
		Machine wash, pressure wash, CIP	ALCOJET	SOLUJET (p-free)
	Oxides, scale, trace metals, salts, milkstone and corrosion.	Manual, ultrasonic, soak		CITRANOX (p-free)
		Machine wash, pressure wash, CIP		CITRAJET (p-free)
	Filter membranes, proteins, biofouling.	Manual, ultrasonic, soak	TERGAZYME	DETOJET
		Machine wash, pressure wash, CIP		DETOJET SOLUJET (p-free)
Foodservice Avoid interfering residues on food-contact equipment and effectively remove soils commonly found in food operations. (For complete foodservice detergent selection guide, visit AlconoxFoodservice.com)	Stainless steel, food contact equipment, industrial fryers/grease buildup, oils, and food residues.	Manual, ultrasonic, soak	ALCONOX PFS	LIQUINOX (p-free) DETONOX
		Machine wash, pressure wash, CIP	ALCOJET	
	Oxides, scale, trace metals, salts, milkstone and corrosion.	Manual, ultrasonic, soak		CITRANOX (p-free)
		Machine wash, pressure wash, CIP		CITRAJET (p-free)
	Filter membranes, proteins, biofouling.	Manual, ultrasonic, soak	TERGAZYME	
Filter Cleaning Returning reusable RO and UF filters to specified flux requires thorough, residue free cleaning.	General cleaning of fouled UF membrane and RO modules.	Soaking, recirculation CIP	ALCONOX	LIQUINOX (p-free) CITRANOX (p-free)
		High pressure CIP or other low foaming requirement	ALCOJET	SOLUJET (p-free) DETOJET CITRAJET (p-free)
	Removal of proteinaceous and similar residues.	Soaking, recirculation CIP	TERGAZYME	
Environmental 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		LIQUINOX (p-free)
		Machine, power spray, labware washer, washer-sterilizer, cage-washers	TERGAJET (p-free)	SOLUJET (p-free)
	Tubes, reusable pipets.	Siphon-type washer-rinsers	ALCOTABS (tablet)	
		Field, manual, ultrasonic, soak	TERGAJET (p-free)	LIQUINOX (p-free)
	Microbiology, water lab, and environmental sampling. Phosphate-sensitive labware. EPA procedures. (Acid for water rinse cycle).	Machine washer, labware washer	TERGAJET (p-free)	SOLUJET-base CITRAJET-acid
Trace metals, metal oxides, scale, salts, starches, amines.	Manual, ultrasonic, soak		CITRANOX (p-free)	
	Machine washer, warewasher		CITRAJET (p-free)	
Nuclear Avoid waste interference.	Laboratory decontamination, pipes, tools, protective equipment.	Ultrasonic, soak, scrubbing, spray	ALCONOX	DETERGENT 8
	Reactor cavity decontamination.	Manual, soak, high pressure spray		DETERGENT 8
Tattoo Equipment Equipment used for tattooing and piercing must be cleaned thoroughly prior to disinfection.	Blood, body fluids, tissue on instruments.	Manual, ultrasonic, soak	ALCONOX TERGAZYME	DETOJET

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Precision Manufacturing Clean parts. Avoiding volatile solvents, strong acids, and other hazardous chemicals.	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
	Oxidation, metallic complexes, trace metals, rust, scale, salts, metal brightening.	Manual, ultrasonic, soak Parts washer, power wash	ALCOJET TERGAJET (p-free)	SOLUJET-base CITRAJET-acid
	Delicate substrates/neutral for waste.	Manual, ultrasonic, soak Machine wash, pressure spray		CITRANOX (p-free) CITRAJET (p-free) KEYLAJET
	Heavily soiled steel with grease, grime, scale.	Soak, ultrasonic, machine wash, spray		LUMINOX (neutral pH) KEYLAJET
Passivation The process of forming a passive layer of chromium oxide on the surface of stainless steel to protect it from corrosion.	Removal of free iron, creating a passive layer of chromium oxide.	Manual, ultrasonic, soak Machine wash, pressure wash, CIP		CITRANOX (p-free) CITRAJET (p-free)
	Ultrasonics Ultrasound transducers pulse sound waves through a solution. Allows for efficient mechanical energy to clean surfaces reliably and reproducibly.	Aluminum, brass, copper, tool steel, and other soft metal parts.	Manual, ultrasonic, soak	
Oils, chemicals, particulates (acid for oxides, salts, buffing compounds).		Manual, ultrasonic, soak	ALCONOX	LIQUINOX (p-free)
Stainless steel, plastics, glass with challenging, adherent residues.		Manual, ultrasonic, soak	ALCONOX	DETONOX
Blood, body fluids, tissue on instruments, glass and labware.		Manual, ultrasonic, soak	TERGAZYME	DETOJET



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