



Metal Processing Chemicals

For various substrates

Updated 2026

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Aluminum

CLEANERS – SPRAY

Aquaease™ PL 732

Liquid, phosphate based cleaner. It is effective at removing all metal working fluids. It extremely exhibits a low foam characteristic. Will split oils to surface.

Aquaease™ PL 714

Liquid, heavy-duty, silicate containing, phosphate based general purpose cleaner. It may also be used on steel and stainless steel. Will split oils to the surface.

Aquaease™ PL 86

Liquid, heavy-duty silicate based cleaner. It offers high efficacy for removing stamping oils, deep drawing oils, and particulate soils. This is generally for remanufacturing operations. Will attack aluminum at temperatures above 150 F.

Lusterclean™ 40 LF

Liquid, heavy-duty amine soap based cleaner. It is an excellent choice for removing stamping oils, deep drawing oils, and other types of lubricants. It offers unsurpassed particulate soil removal and leaves a protective soap film with a low co-efficient of friction. It will emulsify most oils and is ideal for use with ultrasonics.

Emerald Acid Clean #1

Liquid non-silicate containing non-etch citric acid based cleaner. Very effective at removing metal stearate and stearate soap-based drawing and impact extruding compounds.

Aquaease™ PLA 915

Liquid acidic, non-etch spray cleaner. It removes forming lubricants, machining oils, and light scale. Will deoxidize most aluminum alloys.

Aquaease™ ACLF #3

Liquid acid spray or soak cleaner and deoxidizer for aluminum. Will impart a fine acid etch on most aluminum alloys.

CLEANERS – SOAK

Hubbard-Hall Cleaner 187 B

Powder, silicate-containing non-etch cleaner for removing oils and identification inks.

Aquaease™ S 188 NE

Powder, non-silicate, non-etch general-purpose cleaner. Good choice for use as a cleaner on anodizing lines.

Aquaease™ SL 80

Liquid heavy-duty silicate-containing cleaner for removing heavy oils and soils. It tends to split out most oils.



Aquaease™ PL 72 A32

Liquid, phosphate based cleaner for general cleaning. Minimal to non-etch on aluminum. Primary choice for anodizing, chem film, and electroless nickel processes. Will split oils to surface.

Lusterclean™ 40 LF

Liquid, heavy-duty amine soap based cleaner. It is an excellent choice for removing stamping oils, deep drawing oils, and other types of lubricants. It offers unsurpassed particulate soil removal while leaving a protective soap film with a low co-efficient of friction. It will emulsify most oils and is ideal for use with ultrasonics.

Aquaease™ SAL

Liquid, mildly acidic, high detergency cleaner is used for the removal of oils and other soils. Mildly deoxidizer. It is non-etching for use on anodizing lines. Good buffing compound remover when used with ultrasonics.

Emerald Acid Clean #1

Liquid non-silicate containing non-etch citric acid based cleaner. Very effective at removing metal stearate and stearate soap-based drawing and impact extruding compounds. It is an excellent choice for use with ultrasonics.

Aquaease™ SLA 2300

Liquid, non-silicate containing non-etch methane sulfonic acid based cleaner. Very effective at removing metal stearate and stearate soap-based drawing and impact extruding compounds. It is very good at removing lime type scale removal. It is an excellent choice for use with ultrasonics. A very low chloride level allows for its use on stainless steel substrates as well. It does not complex metal ions. It is non-etching when used as directed for most applications. Not for use on 7000 series alloys or any cast alloys.

ALKALINE CLEANERS – ETCH

Extend Etch

Powder, caustic sodium gluconate etch. Good aluminum tolerance. Does not clean heavy soils..

Etch Cleaner 6 LF

Powder, caustic cleaner / etch. Use when space limitations dictate the need to clean and etch in one tank.

Lusterclean™ W 67M

Liquid general purposed caustic sodium gluconate etch cleaner. Produces a refined alkaline etch desired by capacitor manufacturers and others.

ACID CLEANERS - ETCH

Mi-Clean™ 24

Liquid, phosphoric acid based cleaner containing water based solvents and citric acid. Can produce a very light acid etch if such is desired. Good for light rust and scale removal form steel and stainless steel.

Acid Brite 40

Liquid, mineral acids and detergents formulated for cleaning and oxide removal. It will produce a bright finish on aluminum, stainless steel, and copper alloys.



Aquaease™ SLA 2300

Liquid, non-silicate containing non-etch methane sulfonic acid based cleaner. Will produce mild acid etch at temperatures above 160 F. Very effective at removing metal stearate and stearate soap-based drawing and impact extruding compounds. It is an excellent choice for use with ultrasonics. A very low chloride level allows for its use on stainless steel substrates as well. It does not complex metal ions. Not for use on 7000 series alloys or any cast alloys.

Aquaease™ ACLF #3

Liquid acid spray or soak cleaner and deoxidizer for aluminum. Will impart a fine acid etch on most aluminum alloys.

ACID SALTS

Acid Salt GP

Cleans, etches, removes light oils. It contains no chrome compounds and will produce a white finish. Prepares work for the application of an organic finish.

Acid Salt M

Dry acid salt used to replace sulfuric or nitric acid. It will produce a mild etch.

Acid Salt C

This product is a mono per sulfate-based salt that is used in sulfuric acid solution to strip zincate coatings.

PHOSPHATES

Phos & Clean LF-22

Liquid traditional fluoride containing single component detergent iron phosphate for use in three or five stage processes.

Phos & Clean HS-333

Liquid traditional fluoride containing single component detergent iron phosphate for use in cleaner coater spray wand processes.

ZIRCONIUM

Bond Guard ZRC-111

Liquid traditional single component zirconium pretreatment for use in multi-stage processes.

Bond Guard ZRC-222

Liquid traditional single component detergent zirconium pretreatment for use in cleaner coater spray wand processes.

DEOXIDIZERS & DESMUTTERS

Enerox Aluminum Desmut F 108

Iron-based nitric acid containing liquid, designed to rapidly remove smut and deoxidizing aluminum. Its formulation provides for effective dissolution of metallic smuts following the etching step. Effective prior to zincate, plating, chromate conversion coating, anodizing, and painting.



Deoxidizer 13L

Used in rack or barrel processes for removing smut from all wrought aluminum alloys. It contains no chrome compounds.

Deoxidizer 44

Heavy duty deoxidizer and smut remover containing inorganic acids and an iron compound.

Alum Prep

Alum Prep is an acidic liquid, used in conjunction with Descaler D to develop a controlled etch on all types of cast aluminum alloys. The Alum Prep /Descaler D combination will etch, and de-smut cast aluminum alloys in one operation - no subsequent de-smutting is required.

Descaler D

Fluoride salt that is added to products such as Alum Prep to fortify its smut removing and deoxidizing characteristics.

MASS FINISHING

Lusterlume NIXI

Neutral, liquid cleaner and burnishing compound especially formulated for both conventional barrel and vibratory finishing. May be used on most metals such as steel, stainless steel, high nickel alloys, aluminum, copper, and brass. Possesses exceptional detergent properties permitting its use on many moderately dirty or oily surfaces.

Lusterbrite AC 10

Acidic, highly concentrated cleaner used for part-on-part burnishing and vibratory finishing of aluminum, copper alloys, Stainless Steel, Monel, and other nickel-based alloys substrates. Produces a bright lustrous finish on aluminum.

Emerald Acid Clean #1

Liquid non-silicate containing non-etch citric acid based cleaner and mass finishing compound. Very effective in removing metal stearate and stearate soap-based drawing and impact extruding compounds. It produces a bright lustrous finish on aluminum, brass, and copper.

Lusterclean™ 40 LF

Liquid, heavy-duty amine soap based cleaner. It is an excellent choice for removing stamping oils, deep drawing oils, and other types of lubricants. It offers unsurpassed soil removal while leaving a protective soap film with a low co-efficient of friction. It will emulsify most oils and is ideal for use with ultrasonics.

BRITE DIP

Brite Dip 8-EL

A low fuming nitric and phosphoric acid containing bright dip for wrought aluminum alloys.



BLACK FINISH

Black Magic™ RT-A3

Produces a flat decorative black finish on wrought, die cast, and sand cast aluminum.

CORROSION INHIBITORS

Metal Guard® 600

Liquid, clear, water reducible acrylic with good humidity resistance.

Eco Quest NCS-170

This is a slightly alkaline non-chrome sealer for use after iron phosphate and zirconium pretreatment processes.

NCS-Z1

This is a non-chrome sealer for use after iron phosphate and zirconium pretreatment processes.

Copper and Brass

CLEANERS – SPRAY

Aquaease™ PL 732

Liquid, phosphate based cleaner. It is very effective at removing all metal working fluids with an extremely low level of foam. It may be used in all types of high-pressure spray washers.

Aquaease™ PL 72 A16

Mildly alkaline, chelated, water soluble, liquid cleaner for ferrous metals, copper, brass alloys, aluminum alloys and nickel clad stock. May be used to clean a variety of synthetic lubricants and coolants, heat treat oil, quench oils and stamping and drawing lubricants. Will split oils to surface.

Aquaease™ PL 714

Liquid, heavy-duty, silicate containing, phosphate based general purpose cleaner. It may also be used on steel and stainless steel.

Aquaease™ PL 916

Liquid heavy-duty caustic based cleaner. Excellent particulate soil removal and it may be used at lower operating temperatures (120-150 degrees F.). It does not contain phosphates or silicates. **FOR USE ON COPPER ONLY**

CLEANERS – SOAK

Aquaease™ S 986

Heavy duty, powdered, alkaline soak cleaner for ferrous metals, copper, and brass alloys. It may be used in rack or barrel lines.

Aquaease™ SL 689

Liquid version of Aquaease S 986. Heavy-duty alkaline soak for cleaning ferrous metals, copper magnesium alloys and brass alloys. Aquaease SL 689 may be used in either a rack or barrel plating line or in an AGI-dip soak cleaning operation.

Aquaease™ PL 72 A32

Liquid, phosphate based cleaner for use in medium to heavy duty cleaning of stamping and forming oils.

Aquaease™ PL 72 A16

Mildly alkaline, chelated, water soluble, liquid cleaner for ferrous metals, copper, brass alloys, aluminum alloys and nickel clad stock. May be used to clean a variety of synthetic lubricants and coolants, heat treat oil, quench oils and stamping and drawing lubricants. Will split oils to surface.

Lusterclean™ 40 LF

Liquid, heavy-duty amine soap-based cleaner is an excellent choice for removing stamping oils, deep drawing oils, and other types of lubricants. It offers unsurpassed soil removal while leaving a protective soap film with a low co-efficient of friction. It will emulsify most oils and is ideal for use with ultrasonics.

Aquaease™ SAL

Liquid, mildly acidic, soak cleaner for copper alloys, which contains a unique blend of biodegradable surfactants and mild inhibited acid. Also is an excellent cleaner / burnishing compound for use in vibratory finishing mills or “part on part” tumbling barrels.

Aquaease™ SLA 2300

Acidic soak and ultrasonic cleaner that may be used for the removal of a variety of soils and oxides. When used as recommended will not etch most aluminum, stainless steel, brass, copper, Monel or other nickel alloys. Can be used for part-on-part burnishing and vibratory finishing of copper alloys, stainless steel, Monel, and other nickel-based alloys / substrates. **Caution should be used on high zinc brass alloys to minimize attack.**

ELECTROCLEANERS

Aquaease™ E 9091

Heavy-duty general purposed electro cleaner for use on copper based and ferrous alloys. It is also an effective soak cleaner.

Aquaease™ SL 13

Liquid, phosphate, and chelating agent free cleaner for anodic or cathodic electro cleaning.

Aquaease™ SL 916

Liquid heavy-duty caustic based cleaner. Excellent particulate soil removal and it may be used at lower operating temperatures (120-150 degrees F.). It does not contain phosphates or silicate and is an exceptional electro cleaner for “reel to reel” processes. **FOR USE ON COPPER ONLY**

Ultrex Electrocleaner HC

Moderately alkaline electro cleaner, formulated especially for brass, copper alloys, lead alloys, steel, white metal, and zinc.

ACID SALTS

Acid Salt W

An acid salt containing a fluoride compound to facilitate the removal of heavier scales.

Acid Salt M

Is a general purpose un-wetted acid salt to replace sulfuric and hydrochloric acids.

Acid Salt PB

Made especially for leaded alloys. It contains no wetting agents.

ACID CLEANERS/DEOX

Aquaease™ SLA 2300

Acidic soak and ultrasonic cleaner that may be used for the removal of a variety of soils and oxides. When used as recommended it will not etch most aluminum, stainless steel, brass, copper, Monel, or other nickel alloys. Can be used for part-on-part burnishing and vibratory finishing of copper alloys, stainless steel, Monel, and other nickel-based alloys / substrates. **Caution should be used on high zinc brass alloys to minimize attack.**

Copperbrite

Is an iron-based, acidic deoxidizer and bright dip for copper and copper-based alloys. It may also be used to activate nickel plated surfaces. **Caution should be used on high zinc brass alloys to minimize attack.**

BRIGHT DIPS – MATTE

Laser P

Hydrogen peroxide-based pickling system which quickly dissolves heavy oxide and oxide scale from copper, bronze, and brass leaving the surface with a light, matte finish which is well suited for subsequent metal plating, soldering, or mechanical polishing.

Laser S

Hydrogen peroxide/Sulfuric Acid system that replaces bichromate, chromic acid, or Nitric-Sulfuric Acid pickles commonly used for pickling copper, brass, and bronze alloys. It contains no greater than 34% by weight Hydrogen Peroxide. As a pre-pickle, is an effective process that quickly dissolves heavy oxides to produce a matte surface that is well suited for subsequent metal plating, soldering, or mechanical polishing.

BRIGHT DIPS – SHINY

Laser EX 50

A hydrogen peroxide-based formulation that produces a bright lustrous finish on copper and copper-based alloys. Its use may allow for the elimination or reduction in the amount of buffing required prior to plating.

MASS FINISHING

Lusterlume NIXI

Neutral, liquid cleaner and burnishing compound especially formulated for both conventional barrel and vibratory finishing. May be used on most metals such as steel, stainless steel, high nickel alloys, aluminum, copper, and brass. Possesses exceptional detergent properties permitting its use on many moderately dirty or oily surfaces.

Lusterbrite AC 10

Acidic, highly concentrated cleaner used for part-on-part burnishing and vibratory finishing of aluminum, copper alloys, Stainless Steel, Monel, and other nickel-based alloys substrates. Produces a bright lustrous finish on aluminum.

Lusterclean™ 40 LF

Liquid, heavy-duty amine soap based cleaner. It is an excellent choice for removing stamping oils, deep drawing oils, and other types of lubricants. It offers unsurpassed soil removal while leaving a protective soap film with a low co-efficient of friction. It will emulsify most oils and is ideal for use with ultrasonics.

Emerald Acid Clean #1

Liquid, citric acid, based detergent burnish for removal of scale and oxide deposits. Effective on all copper based, stainless steel, and aluminum alloy.

Aquaease™ SAL

Liquid, mildly acidic, soak cleaner for copper alloys, which contains a unique blend of biodegradable surfactants and mild inhibited acid. Also is an excellent cleaner / burnishing compound for use in vibratory finishing mills or “part on part” tumbling barrels.

Lusterbrite 650 B

Liquid, mildly alkaline soap-based burnish for use of copper and brass. It will produce a very high luster with a “white brass” color.

METAL COLORING

Black Magic™ CBL

Hot black oxide produces jet black coating meeting the requirement of the military specifications for black on copper and copper based alloys.

Mi-Tique® 1791

Selenium based reacts with brass, bronze, copper and munz metal producing tones from a light brown to blackish- brown to black. Can freckle low quality brass.

Mi-Tique® 1791 LB

Selenium based reacts with copper alloys and is best for very thin bright brass and silver plating.

Mi-Tique® 1792

Selenium based reacts with brass, bronze, copper, and Muntz metal. It produces colors of light to chocolate brown with an underlying reddish tone than Mi-Tique 1791.



Ene™ Brown Dip

Selenium based reacts with brass, bronze, copper, and Muntz metal. More definite grey tone than Mi-Tique 1791 with brown tones on bronze

Ene™ Black D6

Selenium based reacts with brass, bronze, copper, and Muntz metal. From brown to black and works better on poor quality brass with no freckling.

Ene™ Black D8

Selenium based react with brass, bronze, copper, and Muntz metal to give grey to dark black.

Mi-Tique® 1795

Non-selenium solution for darkening tin compounds (pewter) can be used to darken solder in copper and brass assemblies.

Mi-Tique® Green T2

Non-selenium, ammonia containing antiquing solution producing blue green Patina. Should be used over a Mi-tique brown or black base color.

Mi-Tique® Patina

Non-Selenium antiquing solution producing a yellow green patina finish on copper and copper alloy. Should be used over a Mi-tique brown to black base color.

CORROSION INHIBITORS

Metal Guard® 600

Product is a clear water reducible acrylic polymer with copper anti-tarnish.

Laserguard HFP

High performance anti-tarnish for all copper alloys based on “triazole” compounds. Has a high flash point.

Metal Guard® 914

Wax emulsion containing a copper anti-tarnish.

Stainless Steel

CLEANERS-SPRAY

Aquaease™ PL 918

Liquid heavy-duty, chelated, and caustic based cleaner. It offers excellent soil removal and may be used at lower operating temperatures (120-150 degrees F.) It contains no phosphate or silicate compounds.

Aquaease™ PL 930

Low foam, heavy-duty caustic, chelated alkaline spray cleaner for steel, stainless steel, and nickel. Contains additives that impart higher solvency for difficult hydrophobic soils.

Aquaease™ PL 732

Liquid, mildly alkaline phosphate based cleaner. It is very effective at removing all metal working fluids with an extremely low level of foam. It may be used in all types of high-pressure spray washers.

CLEANERS-SOAK

Mi-Clean 310

Moderately alkaline liquid, with high detergency. Effective at removing soils from aluminum, copper alloys, white metal steel, and Stainless-Steel substrates. Can be used in all temperature ranges with the optimum temperature depending on the exact nature of the soils and oils to be removed.

Aquaease™ PL 918

Liquid heavy-duty, chelated, and caustic based cleaner. It offers excellent soil removal and may be used at lower operating temperatures (120-150 degrees F.) It contains no phosphate or silicate compounds.

ACID CLEANERS

Mi-Clean™ 24

Liquid, phosphoric acid-based cleaner containing water-soluble solvents and citric acid. Good for light rust and scale removal from steel and stainless steel.

Acid Brite 40

Contains mineral acids and detergents formulated for cleaning and oxide removal. It will produce a bright finish on aluminum, stainless steel, and copper alloys.

Emerald Acid Clean #1

Liquid non-silicate containing non-etch citric acid based cleaner. Very effective at removing metal stearate and stearate soap-based drawing and impact extruding compounds. It is an excellent choice for use with ultrasonics.



Aquaase™ SLA 2300

Liquid non-silicate containing non-etch methane sulfonic acid based cleaner. Very effective at removing metal stearate and stearate soap-based drawing and impact extruding compounds. It is very good at removing lime type scale removal. It is an excellent choice for use with ultrasonics. A very low chloride level allows for its use on stainless steel substrates as well. It does not complex metal ions.

DEOXIDIZER

Descaler D

Fluoride based dry acid salt.

Quick Pik 1

A sulfamic acid based dry salt that will produce a satin finish good activator for black oxide.

Acid Brite 50

Formulated blend of inorganic acids and detergents that also contains fluorides and chlorides.

Hubpik

Inhibited acid mixture for rust and scale removal and pickling of steel, cast iron and stainless steel.

Stainless Steel Descaler

Liquid acidic cleaner which can be used in the removal of oxides and scales (weld, laser cut, heat treat) from 300 series stainless steel.

BRIGHT DIP/CHEMICAL POLISH

Stainless Steel Brite Dip

Is an acid-based formulation used to produce a bright and lustrous finish on 300 series stainless steels. It will also remove light edge burs.

Ene Electropolish #1

Acid mixture used with current to remove burs and smooth most alloys of stainless steel.



METAL COLORING

Black Magic™ SSL

Meets Mil-C-13924 Class 4 Liquid version black oxide for all stainless steels.

Black Magic™ SS

Meets Mil-C-13924 Class 4 Powder version black oxide for all stainless steels.

Black Magic™ SS-C

Meets Mil-C-13924 Class 4 black oxide for all stainless steels. RoHS compliant

Black Magic™ RT-SS4

A room temperature selenium hydrochloric acid base black for all stainless steel alloys.

CORROSION INHIBITORS

Metal Guard® 914

Water based wax emulsion.

Metal Guard® 919

Water based wax emulsion

Metal Guard® 560

Solvent cut back, “oily finish”, water displacing rust preventive with best overall corrosion prevention.

Metal Guard® 450

Solvent cut back “dry to the touch” water displacing rust preventive and corrosion inhibitor like Metal Guard 480 without the wax compound.

MASS FINISHING

Lusterlume NIXI

Liquid, near neutral general purposed burnishing compound for use on copper, copper alloys, stainless steel, and aluminum.

Emerald Acid Clean #1

Liquid, citric acid, based detergent burnish for removal of scale and oxide deposits. Effective on all copper based, stainless steel, and aluminum alloy.

Steel

CLEANERS-SPRAY

Aquaease™ PL 918

Liquid heavy-duty, chelated, and caustic based cleaner. It offers excellent soil removal and may be used at lower operating temperatures (120-150 degrees F.) It contains no phosphate or silicate compounds.

Aquaease™ PL 930

Low foam, heavy-duty caustic, chelated alkaline spray cleaner for steel, stainless steel, and nickel. Contains additives that impart higher solvency for difficult hydrophobic soils.

Aquaease™ PL 732

Liquid, mildly alkaline phosphate based cleaner. It is very effective at removing all metal working fluids with an extremely low level of foam. It may be used in all types of high-pressure spray washers.

Aquaease™ PL 714

Liquid, heavy-duty silicate containing phosphate based general purpose cleaner.

CLEANERS-SOAK

Aquaease™ SL 150

Heavy-duty liquid, emulsifying soak cleaner, used in immersion applications for ferrous metals and brass. Maintains effective soil removal over a long operating life. Formulated to remove drawing compounds, quench and rolling oils, greases, and lubricants from a variety of heat-treated fasteners, stampings, and castings. It is particularly effective at removing stearate-based lubes.

Aquaease™ SL 170

Heavy-duty liquid, **chelated**, emulsifying soak cleaner, used in immersion applications for ferrous metals and brass. Maintains effective soil removal over a long operating life. Formulated to remove drawing compounds, quench and rolling oils, greases, and lubricants from a variety of heat-treated fasteners, stampings, and castings. It is particularly effective at removing stearate-based lubes.

Aquaease™ SL 918

Liquid heavy-duty, chelated, and caustic based cleaner. It offers excellent soil removal and may be used at lower operating temperatures (120-150 degrees F.) It contains no phosphate or silicate compounds. Splits oils to surface.

Aquaease™ S 986

A classic powdered, heavy-duty, silicate, phosphate, and caustic containing cleaner. A good "work horse" job shop" cleaner that can be used on steel, stainless steel, and copper alloys.

Aquaease™ SL 689

Liquid version of Aquaease S 986. Heavy-duty alkaline soak for cleaning ferrous metals, copper magnesium alloys and brass alloys. Aquaease SL 689 may be used in either a rack or barrel plating line or in an AGI-dip soak cleaning operation.

ELECTROCLEANERS

Aquaease™ EL 44

Liquid highly alkaline, high conductivity product developed for electro cleaning ferrous metals. It contains a unique wetting system that is stable in caustic.

Cleaner 200 PWA

A heavy duty, high caustic, powder product offering very high conductivity with good “smut” removal capability. Cleaner 200 PWA STR is a lower foaming version for strip and wire lines.

Aquaease™ E 159

Powder, caustic, silicate, and phosphate containing heavy duty cleaner. Contains no chelating agents. May be used anodically or cathodically. Also effective on stainless steel and nickel.

Aquaease™ E 450

Powder containing caustic, silicate, and chelating agents. Used anodically or periodic reverse. Excellent smut removal characteristics.

SOAK ELECTRO COMBO

Ultrex AS 11 R

Alkaline product, blended especially to soak clean a variety of metals, including: brass, copper alloys, and steel. Its formulation provides for excellent removal of oils and grease, preparing the base metal for additional processing in a wide range of finishing cycles. In addition, Provides enough conductivity and conditioning agents to effectively electro clean steel and copper alloys, prior to acid pickling and activation.

Lusterclean™ W 67M

Multifunctional, phosphate, cyanide, and silicate free alkaline liquid product, which may be used in soak / immersion cleaning operations on Steel, Stainless May also be used as an anodic, cathodic, or periodic reverse electro cleaner for steel substrates.

ACID ACTIVATORS/DERUSTERS

Acid Salt GP

Cleans, etches, removes light oils. It contains no chrome compounds and will produce a white finish. Prepares work for the application of an organic finish.

Acid Salt M

Dry acid salt used to replace sulfuric or nitric acid. I will produce a mild etch.

Ahcophos 11

Blend of phosphoric acid, wetting agents, and a glycol ether.

ALKALINE DERUSTERS

Deruster 11 J

Is a powdered, cyanide-free, highly alkaline water soluble product used to remove rust, heat scale, weld scale, smuts, certain fabrication oils, and to strip paint from ferrous metals.

Lusterclean™ W 67M

Multifunctional, phosphate, cyanide, and silicate free alkaline liquid product, which may be used in soak / immersion cleaning operations on Steel, Stainless Steel, brass, and copper substrates. At higher concentrations as an alkaline de-rusting solution for Steel and 400 series Stainless Steel.

Lusterclean™ ALK 2L

Heavy-duty alkaline liquid, formulated to provide aggressive rust and oxide removal from cast iron, carbon steel and stainless steel. Extremely effective in removing the most tenacious rust from steel and cast-iron engine blocks.

IRON PHOSPHATES

Hubfos 150

Is an organic accelerated iron phosphate. It is a water-soluble liquid, which cleans and produces an iridescent iron phosphate coating on steel and other ferrous metals. It may also be used on galvanized surfaces.

Phos & Clean HS-222

Liquid traditional fluoride containing single component detergent iron phosphate for use in cleaner coater spray wand processes.

ZIRCONIUM

Bond Guard ZRC-111

Liquid traditional single component zirconium pretreatment for use in multi-stage processes.

Bond Guard ZRC-222

Liquid traditional single component detergent zirconium pretreatment for use in cleaner coater spray wand processes.

Bond Guard ZRC-333

Liquid traditional single component zirconium pretreatment for use in 3-stage processes with minimal process cleaning.

ZINC PHOSPHATES

Mi-Phos™ Z-1500

Heavy zinc phosphate (1400 to 1600 mg/ft²)

Micron RB-050

Calcium modified zinc phosphate. Soak or spray. Used for paint base. Will produce a coating weight of 300 – 900 mg/ft²

TCJ-100 Lo-Temp

Heavy coating zinc phosphate compound used for applying corrosion inhibiting and lube coatings to steel in immersion tank. Automotive Approved (FIAT-Chrysler, GM, FMC ETC. Meets PS-80, GMW 3179, GM4435, MIL DTL-16232G Type Z

Mi-Phos™ Black Solution

Black pre-dip used to produce a black zinc phosphate.

MANGANESE PHOSPHATE

Mi-Phos™ M-5

Heavy manganese phosphate.

Mi-Phos™ M GR

Grain refiner for Manganese phosphate

SEALS

NCS # Z-1

Non-chrome zirconium seal designed for use in the last stage of a zirconium, iron phosphate, manganese, or zinc phosphate process lines. Meets MIL-DTL-16232 specifications.

Emerald Seal 303

Mild alkaline non-chrome sealer designed for use in the last stage of a zirconium, iron phosphate or zinc phosphate process line; and can be used as a non-chrome seal to meet MIL-DTL-13924E for Class 1 coatings.

Emerald Seal 308

Zirconium seal designed for use in the last stage of a zirconium, iron phosphate or zinc phosphate process line; and can be used as a non-chrome seal to meet MIL-DTL-13924E for Class 1 coatings.

BRIGHT DIP

Laser Fe

Peroxide based dip to polish and smooth steel surfaces for various post treatments.

SR Post Dip

Smut removal for high carbon steel post dip after Laser FE.

MASS FINISHING

Lusterlume NIXI

Liquid, near neutral general purposed burnishing compound for use on copper, copper alloys, stainless steel, and aluminum.

Aquaease™ PL 732

Liquid, mild phosphate based cleaner / burnishing compound.

Aquamill™ X

Liquid, accelerated chemical cutting solution for the removal of grind land belting lines when used with ceramic or plastic mass finishing media.

Lusterlume 14

Liquid, mild soap based burnishing compound that offer moderate corrosion resistance.

Metal Guard® 800D

Liquid amine based burnish and corrosion inhibitor. Very effective at removing “black phase” after accelerated chemical cutting with products such as Aquamill X.

METAL COLORING

Black Magic™ Infusion

A premier liquid hot black oxide for ferrous substrates best for captive shop.
Powder version available

Activated Black Magic Plus™ A traditional powder hot black oxide for ferrous substrates best for job shop.
Liquid version available

Black Magic™ SS-C

Powdered black oxide for Cast Iron.

ROOM TEMP BLACK FOR STEEL

Black Magic™ RT 20

A room temperature system for imparting a black surface on machined steel.

Black Magic™ RT 25

A room temperature system for imparting a black surface on steel stampings.

Black Magic™ RT 26

A room temperature system for imparting a black surface on cast iron and steel.

Black Magic™ RT 30

A room temperature system for imparting a black surface on powdered metal.

CORROSION INHIBITORS-WATER BASED

Metal Guard® 600

Water reducible, clear, acrylic hard shiny film.

Metal Guard® 919

Water based wax emulsion, hard film.



Metal Guard® 914 Water based wax emulsion with copper anti-tarnish.

Metal Guard® 700 Water based steel anti- corrosive emulsion soft film.

Metal Guard® 850 Water based in process steel anti-corrosive.

CORROSION INHIBITORS – SOLVENT BASED

Metal Guard® 450 Dry-to-touch, transparent, ultra-thin finish.

Metal Guard® 480 Dry-to-touch film with enhanced lubricity and corrosion resistance.

Metal Guard® 500 Barium free, water displacing, high corrosion resistance with good lubricity and penetration.

Metal Guard® 510 Solvent cut back, “oily finish”, water displacing rust preventive with good corrosion prevention and acid fume resistance.

Metal Guard® 560 Solvent cut back, “oily finish”, water displacing rust preventive with best overall corrosion prevention.

CORROSION INHIBITORS – OIL BASED

Metal Guard® 270 Water displacing, non-voc, non-barium oil base. Thin film, non-staining.

CORROSION INHIBITORS – OUTDOOR CORROSION PROTECTION

Metal Guard® 900 Viscous, solvent-based rust preventative which is easily applied and easily removed, provides superior corrosion protection on bare metal surfaces for extended indoor and outdoor exposures.

CORROSION INHIBITORS – WATER SOLUBLE

Metal Guard® 320 Emulsifiable oil used at 150 F and 5-20% by volume. Leaves a dry-to-to-touch at low concentration.

Metal Guard® 310 Emulsifiable oil used at 150 F and 5-20% by volume. Leaves a more wet film at normal 10% concentration.

Phos Oil 168 Emulsifiable oil used heated, over zinc phosphate coatings to prevent corrosion. Also meets automotive torque tension requirements FCA (DCX /Chrysler) PS.50034 (formerly PS-80), GM 4435, and FORD S-2.

Zinc

CLEANERS –SPRAY

Aquaease™ PL 714

Liquid, heavy-duty silicate phosphate based general purpose cleaner. Not to be used higher than 150 F on Zinc

Lusterclean™ 40 LF

Liquid, heavy-duty amine soap based cleaner. Excellent for removing stamping oils, deep drawing oils, and lubricants. Outstanding soil removal. Leaves a protective soap film. Excellent buffing compound remover.

Aquaease™ PL 732

Liquid, phosphate based cleaner. Effective at removing all metal working fluids. Extreme low foam characteristic.

CLEANERS – SOAK

Aquaease™ SL 80

Liquid, heavy-duty silicate cleaner for removing heavy oils and soils. Tends for split out most oils.

Lusterclean™ 40 LF

Liquid, heavy-duty amine soap based cleaner. Excellent for removing stamping oils, deep drawing oils, and lubricants. Outstanding soil removal. Leaves a protective soap film. Excellent buffing compound remover.

CLEANERS – ELECTROCLEAN

Aquaease™ SL 13

Liquid, phosphate, and chelating agent free cleaner for anodic or cathodic electro cleaning.

Aquaease™ E 9091

Heavy-duty general purposed electro cleaner for use on copper base and ferrous alloys.

Aquaease™ E 9354

Powder, phosphate free, chelating agent free, heavy-duty cleaner with good detergency.

ACID ACTIVATOR

Acid Salt GP

For pickling and activating prior to electroplating.

Acid Salt M

Unwetted, to replace sulfuric and hydrochloric acids



PHOSPHATES – IRON

Phos & Clean HS-222

Liquid traditional fluoride containing single component detergent iron phosphate for use in three or five stage processes.

BRIGHT DIPS

Die Brite 54

Liquid, bright dip Zamak 3 zinc die coatings. **Cannot be used on Zamak 5 castings**

MASS FINISHING

Lusterlume NIXI

Liquid, near neutral general purposed burnishing compound for use on copper, copper alloys, stainless steel, steel, and aluminum.

Lusterclean™ 40 LF

Liquid, heavy-duty amine soap based cleaner. Excellent for removing stamping oils, deep drawing oils, and lubricants. Outstanding soil removal. Leaves a protective soap film. Excellent buffing compound remover.

METAL COLORING

Black Magic™ RT-Z40

Liquid Room temperature, cosmetic nickel-based black coating.

Black Magic™ ZX

Powdered molybdate-base black for zinc die cast and plate.

Black Zinc

Powdered sulfate based black for Zamac 3.

CORROSION INHIBITORS

Metal Guard® 600

Clear, water reducible acrylic.

Metal Guard® 450

Dry-to-touch, transparent, ultra-thin finish.

WASTEWATER TREATMENT

We have a complete line of specially blended coagulants, metal precipitants and flocculants to meet your needs for waste treatment. Please contact us for help in meeting your effluent requirements.

The treatment of rinses from metal finishing operations, spent cleaners, spent acids, and spent alkaline solutions can be complex. Please check with your local authority if you are unsure what you are allowed to discharge. The table below lists some of the Aquapure products that will give you a starting point when you need specific products for specific removal needs.

Oil & Grease	Phosphates	pH Adjustment	Metal Removal	Chelation Treatment
<u>Aquapure OB Plus</u>	<u>Aquapure Cal 100</u>	<u>Aquapure PHUP</u>	<u>Aquapure I-300</u>	<u>Aquapure P 601</u>
<u>Aquapure AP 99</u>	<u>Aquapure Cal 50</u>	<u>Aquapure PHDL</u>	<u>Aquapure AP 100</u>	<u>Aquapure T-900</u>
<u>Aquapure Quick Drop</u>	<u>Aquapure Cal 76</u>		<u>Aquapure SC Plus</u>	<u>Aquapure T-1000</u>
<u>Aquapure Oil Split</u>	<u>Aquapure Cal 40</u>		<u>Aquapure ICM</u>	<u>Aquapure T-500</u>