

# Stone Chemical Company

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[www.stonechemical.com](http://www.stonechemical.com)

**Specialty Chemicals**  
 ISO 9001:2008 Certified

## Stone Chemical Company Anodizing Chemicals

CLEANERS	
<b>AN100</b> Alkaline Cleaner	AN100 is a cost-effective, non-etching, non-silicated, non-caustic, alkaline cleaner that easily removes stubborn oils, greases and other soils while protecting the underlying metal.
<b>AN105LF</b> Alkaline Cleaner	AN105LF is a low foaming version of AN100 used primarily for spray and parts wash applications. Excellent on aluminum, copper, brass and stainless steel.
<b>AN110L</b> Alkaline Cleaner	AN110L is a liquid version of AN100.
<b>AN115</b> Alkaline Mild Etching Cleaner	AN115 is a mild etching aluminum cleaner. AN115 is used either for spray or emersion applications to remove tenacious oils, grease and other soils while leaving a slight, even matte finish on the part.
<b>AN130L</b> Alkaline Cleaner with Rust Preventative	AN130L is a liquid alkaline cleaner with rust preventative. It is designed to prevent the formation of flash rust on all steels. It is especially effective in cleaning and preventing rust on tooling steel. AN130L contains no solvents.
<b>AN150L</b> Neutral Cleaner	AN150L is a neutral, low-foaming, non-hazardous, biodegradable cleaner which easily remove oils, greases and other soils common to the metals industry. As AN150L contains no acid or alkaline material, it will not harm the underlying metal. AN150L is used extensively for immersion and tumbling operations.
<b>AN160L</b> Acid Cleaner	AN160L is a low foaming, non-etching, acid based cleaner. AN160L quickly cleans tenacious oils, greases and other soils while not etching the aluminum. AN160L is often used to replace alkaline cleaners due to its superior cleaning capability and non-etching characteristics.
<b>ST110</b> Steel Cleaner	ST110 is a powder steel cleaner designed to remove the most tenacious oil, grease and other soils. ST110 is typically used as a cleaner prior to paint or plating. It is low foaming and formulated to prevent the buildup of sludge in the tank.
<b>SW100L</b> Neutral Spray Wash Cleaner	Stone SW100L is a mild non-etching, non-foaming neutral cleaner designed to remove difficult oils, grease and other soils from metal surfaces. Stone SW100L does an excellent job cleaning and preventing tarnish on copper, brass, bronze, and other non-ferrous alloys.
<b>SW150L</b> Low Foaming Spray Cleaner	SW150L is a low foaming, multi-metal, non-hazardous, economical spray cleaner. SW150L does an excellent job of removing oil, grease and other soils.

<b>ETCH &amp; ETCH EXTENDERS</b>	
<b>AN200</b> Etch	AN200 is a proprietary powder etch that provides a consistent, even, matte finish. AN200 prevents the sludge and scale buildup normally associated with caustic etching.
<b>AN210L</b> Alkaline Aluminum Etch	AN210L is a proprietary liquid etch designed for ease of use. Easily added to the bath by tank-side additions or metering, AN210L eliminates the dusting often associated with powdered etch. AN210L is formulated to prevent sludge and scale. Parts processed in AN210L have a smooth, even matte finish.
<b>AN250L</b> Etch Extender	AN250L is an etch additive formulated to prevent sludge and scale while significantly extending the etch bath life. AN250L provides better bath control and allows the operation of the etch bath at higher levels of dissolved aluminum. This reduces the necessity of dumping or decanting the tank. This, in turn, reduces waste treatment costs versus straight caustic soda or other proprietary etches. Additionally AN250L saves money as it is designed to be operated most cost effectively when used with plain caustic soda (AN250L can also be used with proprietary etches such as AN200).
<b>DE-OXIDIZERS / DE-SMUTTERS</b>	
<b>AN650L</b> De-oxidizer / Desmutter	AN650L is a non-chromated, low ferrous based de-oxidizer/desmutter designed to remove the most tenacious contamination and smut on wrought and cast aluminum rapidly.
<b>AN675L</b> De-oxidizer / Desmutter	AN675L is a non-chromated, non-ferrous de-oxidizer/desmutter, which works quickly, and efficiently to remove the heavy dark smut associated with aluminum castings. AN675L also does an excellent job of de-oxidizing and desmutting typical wrought aluminum alloys.
<b>ANODIZING ADDITIVES</b>	
<b>AN350L</b> Anodizing Additive	AN350L is a highly concentrated, long-lived anodizing additive formulated to prevent the burning of parts during the anodizing operation. It allows for the operation of the anodizing bath at higher temperatures and current densities. This accelerates the development of the anodic coating therefore requiring less anodizing time and increasing production output. AN350L is used effectively for both conventional (type II) and hardcoat (type III) anodizing
<b>AN360L</b> Anodizing Additive	AN360L is a high purity, concentrated, long-lived anodizing additive formulated to prevent the burning of parts when using higher levels of sulfuric acid during the anodizing operation. It allows for the operation of the anodizing bath at higher temperatures and current densities. This accelerates the development of the anodic coating therefore requiring less anodizing time and increasing production output. AN360L is used effectively for both conventional (type II) and hardcoat (type III) anodizing
<b>ELECTROLYTIC 2-STEP ADDITIVES</b>	
<b>AN400L</b> Electrolytic Coloring Additive	AN400L is a cost effective, single component additive used for the electrolytic coloring of aluminum parts. AN400L eliminates the need to use multiple components to "build" the coloring bath often required with other processes.

<b>SEALS</b>	
<b>AN535L</b> Mid-Temp Anodizing Seal (Low Nickel)	AN535L is a low nickel, long lived, mid-temp seal with excellent acid resistance as well as smut and bleed suppressant properties. It is used extensively in architectural and aerospace applications.
<b>AN545L</b> Mid-Temp Anodizing Seal	AN545L is a fast-acting, nickel acetate based, aluminum anodizing seal. AN545L provides maximum corrosion resistance for those applications where superior product performance is required. Smut and dye "bleed" additives improve bath longevity and ensure optimum aesthetic appearance of the anodized parts. AN545L is used in a wide range of commercial, aerospace and architectural applications.
<b>AN550L</b> Mid-Temp Anodizing Seal (Heavy Duty)	AN550L is formulated with "heavy-duty" additive package designed to withstand the degrading effects often associated with heavy bath contamination (i.e. sulfates). AN550L provides improved sealing appearance and performance results versus typical anodizing seals available in the market.
<b>AN555L</b> Mid-Temp Anodizing Seal (ultra-low nickel)	AN555L is an ultra-low nickel, mid-temp seal with excellent acid resistance as well as smut and bleed suppressant properties. Used for all dyed and clear anodizing applications, AN555L is long-lived and environmentally friendly.
<b>SEAL ADDITIVES</b>	
<b>AN590L</b> Seal Additive	AN590L is used primarily as an additive for the AN535L and AN545L seal to extend the operation of the seal bath beyond its normal life, AN590L suppresses the formation of smut and helps prevent color bleed.
<b>AN593L</b> Seal Additive	AN593L is used primarily as an additive for the AN550L and AN555L seal to extend the operation of the seal bath beyond its normal life, AN593L suppresses the formation of smut and helps prevent color bleed.
<b>AN595L</b> Seal Additive	AN595L works in very small quantities (10-20 mLs per 100 gallons of tank capacity) to immediately eliminate the smut associated with certain sealing conditions. AN595L works well in hot DI water seals.
<b>RACK STRIPPERS</b>	
<b>AN775</b> Rack Stripper	AN775 is designed to significantly extend rack "life". This zincated, caustic-based product strips the anodic coat off the rack or part down to the aluminum then stops. Versus stripping racks in the etch tank, AN775 will not "chew up" the racks. The product needs no heating (operates at room temperature) and also works effectively for reworking parts (do not use AN775 on "high sheen" parts as it will dull the surface).
<b>FUME SUPPRESSANTS</b>	
<b>AN290L</b> Fume Suppressant	AN290L is a highly efficient, cost effective fume suppressant for use in alkaline environments such as in etch tank. AN290L is used in very small quantities. It is low-foaming and very stable in alkaline solutions.
<b>AN295L</b> Fume Suppressant	AN295L is a highly concentrated, cost-effective fume suppressant for use in alkaline environments such as in the etch tank (AN295L is sometimes used in the anodizing tank as a fume suppressant). AN295L is low-foaming and very stable in alkaline solutions.
<b>AN900L</b> Fume Suppressant	AN900L is an excellent, cost effective fume suppressant used for both acid and alkaline solutions. AN900L is designed to be used in very small quantities and is low foaming.

<b>DEFOAMERS</b>	
<b>AN565L</b> Defoamer	AN565L is a defoamer sometimes used for reducing seal foam. It should be noted that Stone seals do not normally create significant foam except when heavily agitated when new.
<b>AN920L</b> Defoamer	AN920L is a silicated defoamer often used in parts washers, spray or heavy agitation immersion operations. AN920L quickly eliminates foam. Often used to control foam in CU Series products used in spray applications.
<b>AN935L</b> Defoamer	AN930L is a non-silicated defoamer used in applications that are intolerant or sensitive to silicates (anodizing or painting). AN930L minimizes foam even in heavy "sheer" spray washers. Used in both spray and immersion operations.
<b>WASTE TREATMENT POLYMERS</b>	
	Stone Chemical Company offers a full line of waste treatment polymers (i.e. AN850, AN880, AN880N, etc). Please ask your Stone representative about these products.

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## Stone Chemical Company Copper, Brass & Bronze Chemicals

COPPER, BRASS & BRONZE	
<b>CU100L</b> Copper, Brass & Bronze Cleaner & Brightener	CU100L is a non-nitric based material designed to both clean and mildly brighten copper, brass, bronze, and other non-ferrous metals. CU100L eliminates the nitric fumes typically associated with the brightening process. It is safe to use and easily waste treatable. CU100L is often used as pre-treatment for plating.
<b>CU150L</b> Copper, Brass & Bronze Cleaner & Brightener	CU150L is a non-nitric based material designed to both clean and brighten copper, brass, bronze, and other non-ferrous metals. CU150L eliminates the nitric fumes typically associated with the brightening process. CU150L is a milder alternative to standard aggressive mineral acid brite dips. It is safe to use and easily waste treatable. CU150L is often used as pre-treatment for plating.
<b>CU200L</b> Copper, Brass & Bronze Tarnish Preventative	CU200L prevents corrosion and the formation of tarnish on copper, brass, bronze, silver, nickel and other non-ferrous metals. CU200L is often used to prevent tarnish on parts after machining and prior to plating (it must be removed prior to plating). CU200L is also used when parts need to be stored or staged during the plating process, or when plating or cleaning to prevent tarnish on parts to be stored or shipped to the customer. CU200L can be easily removed with an acid rinse or an acid cleaner. CU200L tends to work better on certain brass alloys vs. CU250L.
<b>CU250L</b> Copper, Brass & Bronze Tarnish Preventative	CU250L is a tarnish preventative designed for use on copper, brass, bronze, silver, nickel and other non-ferrous metals. CU250L is often used to prevent tarnish on parts after machining and prior to plating (it must be removed prior to plating). CU250L is also used when parts need to be stored or staged during the plating process, or when plating or cleaning to prevent tarnish on parts to be stored or shipped to the customer. CU250L can be easily removed with an acid rinse or an acid cleaner. CU250L tends to work better on certain copper alloys vs. CU200L.
<b>CU400L</b> Copper, Brass & Bronze Cleaner	CU400L cleans, brightens and helps prevent tarnishing while removing the lead from the surface of brass. CU400L is a mild chemical process that removes lead from the metal surface while not affecting the dimensions or surface integrity of the part. CU400L allows manufacturers of brass parts to meet NSF61 requirements. It is the only product of its kind on the market.
<b>SW150L</b> Low Foaming Spray Cleaner	SW150L is a low foaming, multi-metal, non-hazardous, economical spray cleaner. SW150L does an excellent job of removing oil, grease and other soils.

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## Passivating Chemistry

PASSIVATING CHEMISTRY	
<b>ST100L</b> Stainless Steel Passivating Cleaner/Brightener	ST100L cleans, brightens and passivates stainless steel. If the stainless steel parts have been processed with typical machining oils or greases, ST100L does an excellent job of cleaning and passivating in one step. ST100L replaces the aggressive nitric acid processes generally used in the industry and complies with ASTM A-380.
<b>CU400L</b> Copper, Brass & Bronze Cleaner	CU400L cleans, brightens and helps prevent tarnishing while removing the lead from the surface of brass. CU400L is a mild chemical process that removes lead from the metal surface while not affecting the dimensions or surface integrity of the part. CU400L allows manufacturers of brass parts to meet NSF61 requirements. It is the only product of its kind on the market.
<b>AN592L</b> Aluminum Passivating Brightener/Cleaner	AN592L is a mildly acidic liquid immersion brightener/cleaner free of nitric acid or other harsh components. AN592L is a metal brightener—primarily for aluminum and anodized aluminum but also for brass, bronze, and steel. Its use, depending on soil conditions, parts configuration, bath temperature, etc, varies from 10-50% concentration at temperatures from ambient to 150° F. Bath time is dependent on agitation and desired appearance. AN592L is a mild brightener and should not pit the metal surface under most conditions. It also has mild cleaning ability for moderately soiled metal surfaces

## Rust Remover

RUST REMOVER	
<b>RR100L</b> Neutral Rust Remover	RR100L is a neutral, non-hazardous, fast acting rust remover. RR100L works at room temperature, however heating (up to 120° F), as with all chemistry, will speed the process. RR100L also prevents the “flash-rusting” typically seen with more aggressive acid rust removers.