

Chemicals

Product Information Guide



Safe, Effective Descalers and Degreasers

Non-distilled industrial water contains mineral salts that bind to metal, especially hot surfaces. These scale deposits – usually calcium and magnesium compounds – are a plague to the operating efficiency of air compressors, heat exchangers, vacuum pumps, boilers, cooling towers and other water-wetted equipment.

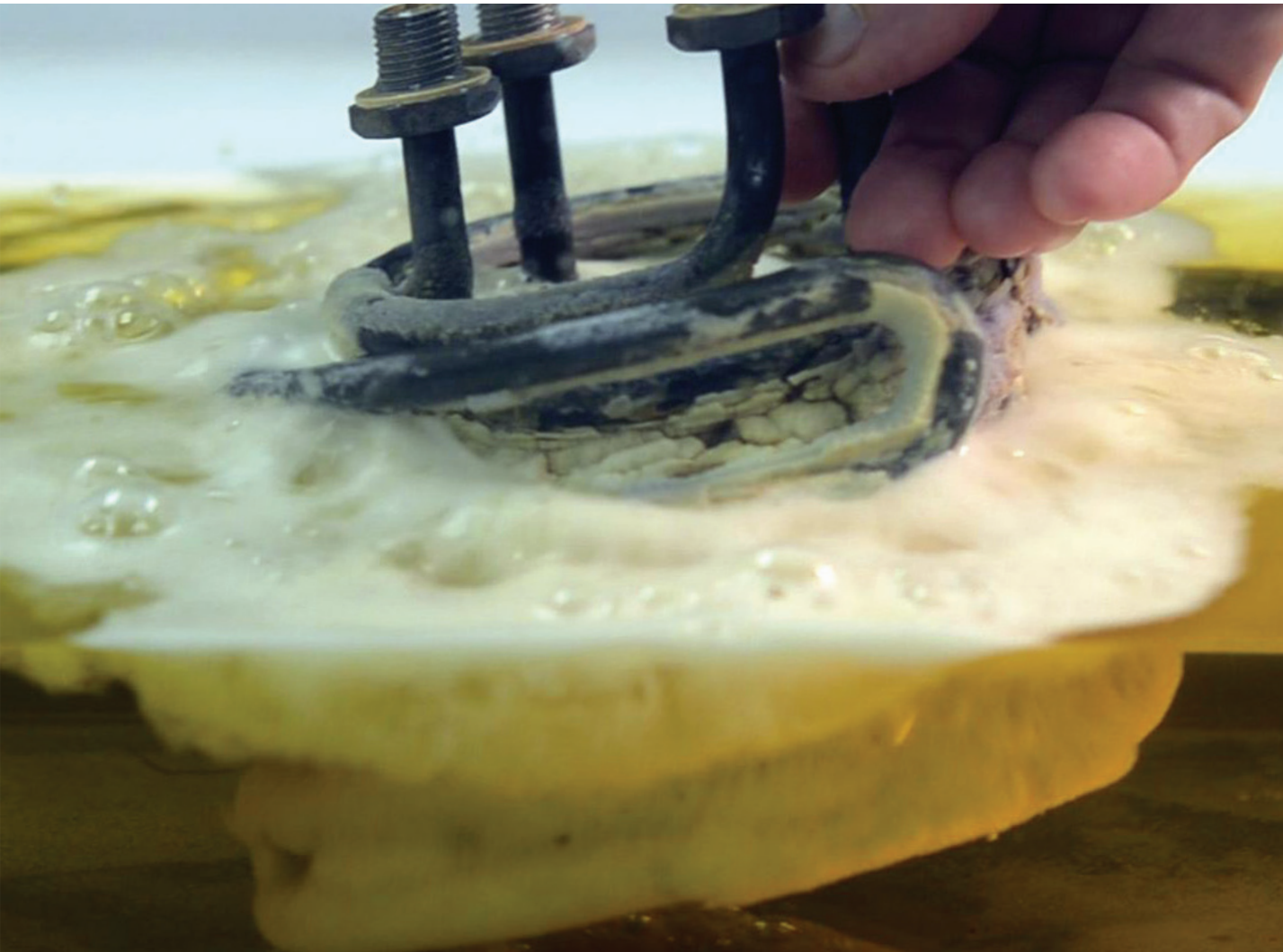
This results in billions of dollars in lost revenues due to equipment down time and increased power consumption. All because of lime scale build-up in pipes, heat exchangers, boilers and other

industrial equipment. Add the maintenance costs associated with the scale-removal maintenance costs to the loss in production, and it is enough to significantly damage a company's bottom line.

Sublime Descaler started as just another way for Summit to serve our customers. Many of our lubricant customers were having scale issues in other parts of their operations; we had the lab expertise to come up with a solution that was environmentally safe and did not require users to disassemble their equipment.

Sublime's success led to more product lines, including a group of degreasers for specialized applications where Sublime was incompatible and two biodegradable degreasers for the dirtiest and oiliest projects in your facility.

Contact our chemicals department today to see how Summit can save you time and money, while keeping your facility safe and clean.



Sublime® Descaler Saves Money

Using Summit Sublime Descaler offers an instant return on your investment.

Sublime Descaler offers an instant return on your investment. Lime scale is a costly nuisance that reduces production efficiency, decreases pumping volumes and eventually leads to mechanical failure. Sublime offers the opportunity to clean your system without shutting the system down and breaking it apart. In many applications, you can clean while the system is in operation by circulating Sublime through the equipment.

Low foaming, Sublime quickly goes to work dissolving scale, while releasing carbon dioxide (CO2) as a harmless by product. Its pleasant citrus-lime fragrance helps mask the unpleasant odors normally associated with dissolving water scale and corrosion.

A safe and simple method for returning scaled processing equipment to full service and top operating efficiency.



What sets Summit Lubrication apart?

We're looking to do much more than just sell lubricants. We pride ourselves on being expert problem solvers. At Summit, we know that our success hinges directly on your success, and that knowledge drives the way we do business. In everything we do – from product development, to hiring, to plant visits, phone calls, technical support, oil analysis, training seminars and everything in between – we are looking to answer the question: "Does this add to our customers success?" We want to be a full-service lubrication resource for your business.



Descaler and Degreaser Applications

Summit's full line of descalers are right for any piece of equipment that is water-cooled, but we have seen specific success in the following applications:

- Air compressors
- Breweries
- Chemical plants
- Evaporating equipment
- Food processing plants (NSF registered)
- Foundries
- Heat exchangers
- Meat packing plants
- Paper mills
- Piping systems
- Power plant boilers
- Rubber plants
- Sewage disposal plants
- Utilities
- Water treatment facilities
- Water-wetted equipment in refineries

Cleaning processes that used to take days can now be done in hours.



Sublime is our most popular descaler, but depending on the application and the metals involved, it's not always the right fit. See page 6 of this brochure for all available products.

Summit's degreasers are ideal for industrial cleaning. These super-concentrated formulas are designed to melt through the dirtiest and oiliest projects you can find. This includes oil rigs, conveyors, engines, ovens, deep fat fryers, vats and other greasy, carbon-encrusted parts. Both degreaser options are biodegradable, and EnviroTech Green Cleaner is a powerful degreaser certified as a safer choice by the U.S. EPA and proven effective in hundreds of applications.

Color Changes When Spent

Sublime comes in a pale yellow color that changes to a deep bluish-purple color when it is spent. There are four important advantages to this color change sequence:

- You know when the solution is spent and when it should be discarded
- You don't spend time circulating a depleted solution
- The color change occurs at a pH of 5.8 to 6.0, well within the safe
- disposal range specified by most governmental wastewater regulations
- If the equipment is clean (and Sublime has not changed color) you can save it and use it again



Chemical Applications

Descalers

Sublime Descaler

Sublime Descaler is designed to penetrate and remove encrusted lime scale, rust, corrosion products and dirt from water-wetted surfaces in process equipment, commercial and industrial applications.

Alimex

Alimex is a water-based chemical formulated to safely clean lime scale and corrosion from water-wetted surfaces. This product is specifically designed to be used on equipment that contains aluminum that cannot be safely cleaned with other scale removing compounds.

Morcon-10

Morcon-10 was developed to remove cement and other calcium materials (lime-scale, barnacles, mussels) from places where they may cause a problem. Morcon-10 is a hydrochloric acid solution that contains corrosion inhibitors, detergents, wetting agents and degreasing compounds.

GalVan-Plus

Galvan-Plus is an acid-free descaler built specifically for galvanized metal cleaning. Galvan-Plus is designed to safely remove lime deposits or water scale from cooling towers (basin), water lines and galvanized pipe fittings where stronger, acid-based descalers would degrade the metal.

Degreasers

EnviroTech Green Cleaner

EnviroTech Green Cleaner is a powerful degreaser and is proven safe and effective. This U.S. EPA DfE – Recognized “Safest Products” and NSF Food Grade registered fast-acting cleaner and degreaser removes oil residue and hydrocarbon buildup such as grease, motor oil, tar, fuel, fats, heavy soil, and much more.

Xtra-Clean

Xtra-Clean is Summit’s strongest maintenance cleaning compound. Ideal for industrial cleaning, this super-concentrate is formulated to melt-though the dirtiest and oiliest projects you can find.

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Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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Summit Lubrication – partnering for success

Your expert in specialty lubricants. Since 1982, we have partnered with you to bring you the right solution and advanced lubrication technologies. With over 500 products, from air and gas compressor oils to refrigeration oils, we develop top-of-the-line products tailored to your specific needs. Your success is our success.

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The logo features the word "KLÜBER" in a bold, italicized, sans-serif font, with a double slash (//) positioned above the "Ü". Below it, the word "LUBRICATION" is written in a smaller, all-caps, sans-serif font.
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