

SUBLIME® General Application Guide



Introduction

Summit SUBLIME® is a water-based solvent containing wetting agents, corrosion inhibitors and degreasing compounds. SUBLIME® is designed to penetrate and remove encrusted lime scale, rust, corrosion products and dirt from water-wetted surfaces in process equipment. The solution can also be used to remove lime scale in commercial and industrial applications. SUBLIME® is non-toxic, non-corrosive and non-flammable and can be safely handled when used as directed in the technical literature. It is NSF® A3 registered.

Technical Specifications

SUBLIME® has a pleasant sassafras odor and does not generate obnoxious odors when dissolving water scale or lime.

SUBLIME® contains a pale yellow colored dye which changes to a purple color when the solution is spent.

SUBLIME® has the ability to remove approximately 1.5 pounds of lime and water scale per gallon of solution. Carbon dioxide (CO₂) gas is generated by the action of SUBLIME® solution on lime or water scale.

SUBLIME® is non-corrosive and will not adversely affect the following materials when used as directed: stainless steel, carbon steel brass, admiralty metal, copper, iron, lead, PVC plastic, polyethylene, rubber, leather, or most metals or materials normally found in water-wetted equipment.

SUBLIME® is especially designed to safely remove lime deposits or water scale from:

- Power plant boilers and piping systems and from evaporating equipment
- Equipment in refineries, utility companies, paper mills, chemical plants, foundries and other industries

- Sewage disposal plants, water treating facilities, and other municipal water handling operations
- Any equipment that is water contacted in any manner

SUBLIME® is non-toxic, non-corrosive and non-flammable when used as directed. It is NSF® registered A3 and USDA approved for use as an acid cleaner in all establishments operating under the Federal Meat, Poultry, Shell Egg Grading and Egg Products Inspection Program.

SUBLIME® is not recommended for use in aluminum, aluminum alloys, zinc (hot dipped galvanized sheet), and all alloys of magnesium. It is recommended that test samples of these metals be evaluated in the laboratory before using SUBLIME® to treat water scale deposits on these metals.

Concentrated SUBLIME® solution may discolor some chromed and stainless steel surfaces. It is recommended that SUBLIME® solution be diluted 1:1 with water before using on chrome surfaces.

SUBLIME® meets all the requirements of the U.S. Department of Transportation regulations given in 173.240 (a) for shipment without hazardous warning. For information regarding shipping by air, please contact Summit.

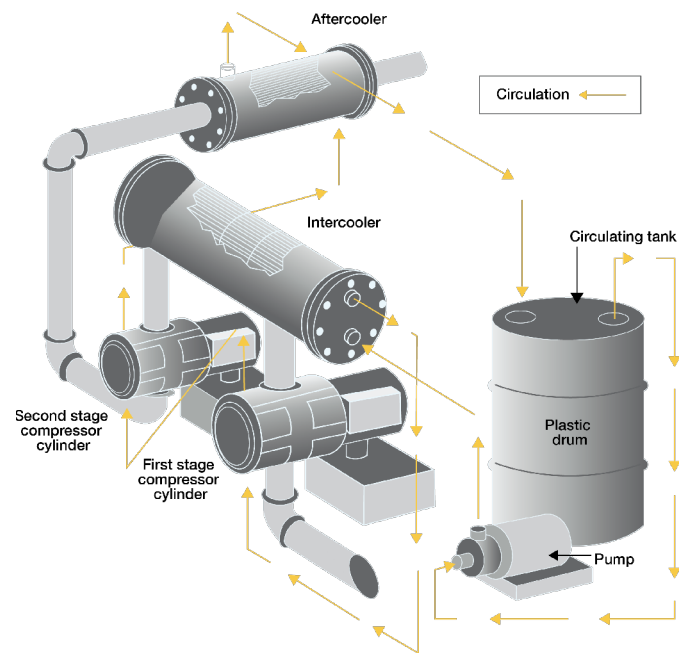
SUBLIME® does not separate, phase out or degrade in storage. The solution is free rinsing and does not require neutralization.

SUBLIME® is a registered trademark of Summit

SUBLIME® Cleaning Intercooler, Aftercooler, & Cylinder Jackets on a Two Stage Compressor

Procedure

1. Shut down the compressor and lock out the power source.
2. Continue water circulation until the compressor and all water cooled surfaces have cooled to 140°F or less.
3. Shut off, disconnect and drain all cooling water from the unit. Backwash the exchanges and the cylinder heads individually to remove as much loose dirt and debris as possible.
4. The unit should be piped and valved so that SUBLIME® solution can be circulated upflow in series through all of the waterwetted equipment. SUBLIME® solution should enter at the lowest point and exit from the highest point. The SUBLIME® pump and circulation tank should be attached as shown.
5. The circulation tank should be vented to atmosphere at all times while the SUBLIME® solution is being used. This allows the carbon dioxide formed during the cleaning process to escape to the atmosphere.
6. Sufficient SUBLIME® should be added to the circulation tank to provide for flooded circulation and approximately 12 inches of SUBLIME® solution in the tank.
7. A yellow dye has been added to SUBLIME® which turns to a purple color when the SUBLIME® solution's ability to remove lime scale has been exhausted. If the solution changes to a purple color or if carbon dioxide (CO₂) gas no longer evolves when there is lime scale present, the solution is spent.
8. It will normally take two (2) to six (6) hours of circulation to clean, depending on the size of the equipment and the quantity of scale and rust to be removed. One gallon of SUBLIME® will remove approximately 1.5 pounds of scale, depending on the composition of the scale.
9. Upon completion of the cleaning operation, drain the SUBLIME® solution from all equipment. Thoroughly flush the water cooling system with fresh water for 10 to 15 minutes and rinse all surfaces before returning the equipment to service.
10. Check the SUBLIME® solution to see if it is spent. If it is still active, retain for future use. If it is spent properly dispose of.



U.S. Navy Approved

This information contained in this document is the result of careful testing in our laboratories, complimented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability.