JMN SPECIALTIES, INC.
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PRODUCT BULLETIN

AC 700

Organic Acid Cleaner and Descaler

General Description

AC 700 is an aqueous organic acid cleaner developed to remove water scale, rust, and corrosion deposits from industrial piping and heat transfer equipment. Its buffered citrate chemistry provides cleaning action at a near-neutral concentrate pH. The Product is suited to lightly to moderately contaminated systems where controlled deposit removal is desired.

Features and Benefits

AC 700 helps remove mineral deposits and iron oxide while keeping loosened material in the circulating cleaning solution for removal from the system. Its aqueous formulation contains no added volatile organic solvents and can be diluted to match the deposit load and cleaning method. The Product is intended for industrial cleaning of carbon steel and stainless steel piping, heat transfer systems, hot oil units, glycol dehydration systems, and cooling systems.

Typical Applications

AC 700 is used to remove water scale, rust, and corrosion deposits from carbon steel and stainless steel piping; heat exchangers and other heat transfer equipment; hot oil and glycol dehydration systems; and industrial cooling systems. It is particularly suited to lightly to moderately contaminated systems that can be cleaned by circulation. Verify compatibility with all wetted materials and select the dilution, temperature, and circulation time for the specific equipment and deposits.

Directions for Use

Dilute **AC 700** with water at approximately **1 part Product to 4–10 parts water**, selecting the concentration according to the amount and type of deposit. Add the Product to the water with agitation. Circulate through the system and monitor cleaning progress, solution condition, and metal compatibility. The historical application guidance recommends heating the diluted solution to **71–82°C (160–180°F)** for maximum cleaning performance; confirm that the equipment, seals, and operating procedure permit that temperature. Cleaning time varies with deposit thickness, flow, and system design. Drain the spent solution, then rinse the system thoroughly. Contact JMN Specialties for application-specific guidance.

Compatibility

AC 700 is intended for cleaning carbon steel and stainless steel piping. The historical bulletin also describes use in systems containing copper and aluminum. Before cleaning a mixed-metal system, confirm compatibility with every wetted metal, coating, gasket, seal, and component under the proposed concentration, temperature, and contact time. Avoid prolonged stagnant contact with reactive metals. Do not mix the Product with bleach, strong oxidizers, or strong alkalis.

Environmental and Regulatory Information

The principal citrate cleaning components are expected to biodegrade. Prevent uncontrolled release of concentrate or spent cleaning solution. Used solution may contain dissolved metals, scale, oil, and other contaminants removed from equipment; characterize and manage it according to applicable requirements. Consult the current **AC 700 Safety Data Sheet** for hazard, handling, transportation, and disposal information.

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Physical Properties

Appearance	Clear green liquid
Odor	Mild surfactant odor
pH, concentrate	Approximately 5.8
Specific gravity	Approximately 1.19
Freezing point	Approximately −8°C (17°F)
Water solubility	Miscible

(Typical values; not a specification)

Quality Assurance

JMN Specialties, Inc. manufactures **AC 700** under its established quality management procedures. Production lots are subject to applicable in-process and final quality checks before release.

Availability

AC 700 is available in UN approved 5-gallon pails, and 55-gallon drums and bulk quantities.

Handling and Safety

For industrial and professional use only. Not for household, food, or pharmaceutical use. Avoid contact with eyes and skin and avoid breathing mist. Wear chemical splash goggles, chemical-resistant gloves, and suitable protective clothing. Provide ventilation during transfer and circulation, particularly when the solution is heated. Read the current Safety Data Sheet before use.

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