JMN SPECIALTIES, INC.
1100 Victory Drive - Westwego, LA 70094
PO Box 189 - Westwego, LA 70096

PRODUCT BULLETIN

AC 1015 CLEANER

Acidic Pickling Descaling Oxide Removal for Stainless Steel Systems

General Description

AC 1015 CLEANER is a high-performance, water-based acidic cleaner formulated for the removal of weld oxides, heat tint, fabrication scale, and surface contamination from stainless steel systems. The product utilizes a balanced combination of organic acids, fluoride activation, and wetting agents to provide effective pickling and descaling while promoting a clean, uniform metal surface. It is specifically designed for internal circulation cleaning of new or existing stainless steel piping, vessels, and process systems where specification requirements call for descaling or pickling of weld-affected zones and internal surfaces.

Typical Applications

AC 1015 CLEANER is recommended for internal cleaning of stainless-steel piping systems, vessels, and equipment where removal of weld oxide, heat tint, and fabrication residues are required. It is suitable for commissioning new systems as well as maintenance cleaning of existing systems exhibiting oxide buildup or process contamination. The product is particularly effective for circulation cleaning programs where access is limited, and mechanical cleaning is not practical. It may also be used for immersion or recirculation cleaning of fabricated stainless components prior to service. Following cleaning, thorough rinsing is required, and where specified, a separate passivation step may be applied to optimize corrosion resistance.

Features and Benefits

AC 1015 CLEANER provides effective removal of weld oxide, heat tint, and fabrication scale from stainless steel surfaces, improving system cleanliness and preparation for commissioning or service. The formulation incorporates a high level of organic acid for iron control and deposit solubilization, combined with controlled fluoride activation to enhance oxide removal without excessive base metal attack. The product promotes a uniform, brightened metal surface and helps minimize redeposition of dissolved contaminants during circulation cleaning. Low foaming characteristics support efficient pump circulation in closed-loop systems, and the water-based formulation allows for easy dilution, handling, and rinsing. The formulation is chloride-free, eliminating the risk of chloride-induced stress corrosion cracking in stainless steel systems and is designed to deliver strong pickling performance while maintaining in a controlled and manageable manner.

Directions for Use

AC 1015 CLEANER is typically applied at a **20% dilution with water** for internal circulation cleaning of stainless-steel systems. The cleaning solution should be circulated through the system at ambient temperature with sufficient flow to ensure full contact with all internal surfaces. Typical circulation times range from 2 to 8 hours depending on system condition and should continue until surfaces are visibly clean and free of oxide residues. Following cleaning, the system must be thoroughly rinsed with clean water until neutral pH is obtained. If required by specification or service conditions, a separate stainless steel passivation treatment may be performed after rinsing.

Environmental Information

AC 1015 CLEANER is a water-based formulation designed for industrial use. The primary environmental considerations are related to acidity, dissolved metals, and fluoride content generated during cleaning. Spent solutions should be neutralized and treated in accordance with local, state, and federal regulations prior to discharge or disposal. Avoid uncontrolled release to the environment. Waste treatment requirements will depend on contamination levels and site-specific discharge limits.

The information contained herein is provided in good faith, but shall not create any warranty, expressed or implied, by operation of law or otherwise, with any respect to any product.
JMN SPECIALTIES, INC. SPECIFICALLY DISCLAIMS ALL WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Phone (504) 341-3749 Fax (504) 341-5868 or E-mail: sales@jmnspecialties.com

Compatibility

AC 1015 CLEANER is formulated for use on **stainless steel systems** and is compatible with common austenitic grades including 304, 304L, 316, and 316L when used as directed. The product is specifically designed for removal of weld oxides, heat tint, and fabrication residues without excessive attack on properly alloyed stainless substrates. The formulation is **not recommended for use on carbon steel**, galvanized steel, aluminum, zinc, magnesium, or other reactive metals, as rapid attack and material degradation may occur. Contact with copper, brass, and other yellow metals should also be avoided due to potential corrosion or surface discoloration. Elastomers, gaskets, coatings, and non-metallic materials should be evaluated for compatibility prior to use, as acidic fluoride-containing solutions may cause swelling, softening, or degradation of certain materials. Typical compatible materials may include PTFE and certain fluoropolymers; however, compatibility should be confirmed under actual use conditions. System components such as pumps, seals, and instrumentation should be constructed of acid-resistant materials suitable for use with acidic cleaning solutions. Thorough rinsing following use is required to remove residual acidity and dissolved contaminants prior to returning the system to service. For mixed-metal systems or where material compatibility is uncertain, testing under controlled conditions is recommended prior to full-scale application.

Regulatory Information

AC 1015 CLEANER is intended for industrial and professional use only. Not for household, food, or pharmaceutical use. Proper classification, transport, and disposal must be determined based on use conditions, dilution, and applicable regulations. Refer to the Safety Data Sheet (SDS) for detailed regulatory and transportation information.

Physical Properties

Appearance	Clear to slightly hazy liquid
Color	Colorless to pale yellow
Odor	Mild Acidic / ammoniacal
pH (concentrate)	~2.5 – 3.5 (typical, will vary)
Specific Gravity	~1.20 – 1.30
Solubility in Water	Complete
Flash Point	Not applicable
Foam	Low to moderate (circulation conditions)

(Typical values; not a specification)

Availability

AC 1015 CLEANER is available in UN approved 5-gallon pails, and 55-gallon drums and bulk quantities.

Safety

AC 1015 CLEANER is an acidic product containing fluoride salts and organic acids and may cause severe irritation or burns upon contact. Appropriate personal protective equipment (PPE) should be worn during handling and use, including chemical-resistant gloves, protective clothing, and eye/face protection. In case of contact with skin or eyes, rinse immediately with plenty of water. If inhaled, move to fresh air. If swallowed, do not induce vomiting and seek medical attention. Refer to the Safety Data Sheet (SDS) for complete hazard, handling, and first aid information.

Handling

This product is intended for industrial and professional use in manufacturing and maintenance operations. Avoid contact with skin, eyes, and clothing. Use only in well-ventilated areas. When diluting, always add product to water slowly with mixing; do not add water to concentrated product. Avoid mixing with incompatible materials such as strong oxidizers, hypochlorites, or cyanide-containing compounds. Keep containers tightly closed when not in use and store in compatible, corrosion-resistant containers. Ensure that pumps, seals, and system components are compatible with acidic fluoride-containing solutions prior to use.

The information contained herein is provided in good faith, but shall not create any warranty, expressed or implied, by operation of law or otherwise, with any respect to any product.
JMN SPECIALTIES, INC. SPECIFICALLY DISCLAIMS ALL WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
Phone (504) 341-3749 Fax (504) 341-5868 or E-mail: sales@jmnspecialties.com