**JMN SPECIALTIES, INC.**
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## PRODUCT BULLETIN

# AC 1001 CLEANER

## Biodegradable Acidic Cleaner, Descaler and Oxide Remover

General Description

**AC 1001 CLEANER** is a concentrated, water-based acidic cleaner formulated for the removal of rust, mineral scale, corrosion by-products, oxides, and inorganic deposits from industrial equipment and metal surfaces. The product utilizes a balanced combination of organic acid cleaning and chelation, controlled fluoride activation, and wetting agents to provide effective deposit removal while maintaining a controlled cleaning action. **AC 1001** has a long history of use for cleaning heat-transfer systems, process equipment, piping, tubing, vessels, and fabricated components. It is particularly effective for stainless-steel cleaning applications where removal of oxide deposits, fabrication residues, mineral scale, and corrosion products is required.

Typical Applications

**AC 1001 CLEANER** is recommended for immersion, circulation, and system cleaning applications involving stainless-steel piping, fabricated components, spools, vessels, heat-transfer equipment, and other compatible process equipment. It may be used for commissioning cleaning of new systems as well as maintenance cleaning of existing equipment containing rust, mineral scale, corrosion products, and process-related inorganic deposits. For stainless-steel fabrication and spool cleaning, **AC 1001** may be used as an ambient-temperature immersion or dip cleaner. Circulation may also be used where access to internal surfaces is limited or mechanical cleaning is impractical.

Features and Benefits

**AC 1001 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 1001 CLEANER** is normally diluted from 1:4 to 1:10 with water depending upon the application and severity of contamination. For typical stainless-steel immersion or dip-cleaning applications, a 20% working solution (1 part **AC 1001** to 4 parts water) is recommended. The cleaning solution may be used at ambient temperature. Cleaning or circulation time will depend upon deposit type and thickness, system condition, concentration, agitation, and desired degree of cleaning. Cleaning should continue until the required surface condition has been achieved. For preparation of large-volume dip tanks, fill the tank with the required water and establish agitation or circulation before adding **AC 1001**. Add **AC 1001** slowly to the circulating water rather than rapidly adding the concentrate to stagnant water. Continue mixing until the bath is uniform before beginning the cleaning operation. Following cleaning, surfaces should be thoroughly rinsed with clean water to remove residual cleaner and dissolved contaminants. Where required by specification or service conditions, a separate stainless-steel passivation treatment may be performed after rinsing.

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

Environmental Information

**AC 1001 CLEANER** is a water-based formulation designed for industrial cleaning applications. Environmental considerations associated with spent cleaning solutions include acidity, fluoride content, dissolved metals, scale, corrosion products, and contaminants removed during cleaning. Avoid uncontrolled release to the environment. Spent cleaning solution should be characterized and treated or disposed of in accordance with applicable federal, state, and local requirements. Waste-treatment requirements will depend upon contamination levels and site-specific discharge limitations.

Compatibility

**AC 1001 CLEANER** is suitable for stainless-steel cleaning applications when used as directed. Compatibility with the specific metallurgy and operating conditions should be confirmed before use, particularly for prolonged exposure or elevated-temperature applications. The product contains an acidic fluoride system and should not be assumed compatible with aluminum, zinc, galvanized steel, magnesium, glass, or other fluoride-sensitive materials. Copper, brass, other yellow metals, elastomers, coatings, gaskets, pumps, seals, and instrumentation should be evaluated for compatibility prior to use. For mixed-metal systems or where material compatibility is uncertain, controlled testing is recommended before full-scale application.

Regulatory Information

**AC 1001 CLEANER** is intended **for industrial and professional use only.** Proper classification, transportation, handling, and disposal should be determined in accordance with applicable regulations and the conditions of use. Refer to the current Safety Data Sheet (SDS) for detailed regulatory and transportation information.

Physical Properties

| | |
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| Appearance | Clear liquid |
| Color | Colorless to pale straw |
| Odor | Mild Acidic |
| pH (concentrate) | ~3.5 – 3.8 (typical, will vary) |
| Specific Gravity | ~1.19 |
| Solubility in Water | Complete |
| Flash Point | Not applicable |
| Foam | Low to moderate (circulation conditions) |

*(Typical values; not a specification)*

Availability

**AC 1001 CLEANER** is available in UN approved 5-gallon pails, and 55-gallon drums and bulk quantities.

Safety

**AC 1001 CLEANER** is an acidic industrial cleaning product containing fluoride salts and organic acids. Appropriate personal protective equipment should be worn during handling and use, including chemical-resistant gloves, protective clothing, and eye/face protection. Ensure adequate ventilation during handling, dilution, and use. Avoid contact with skin, eyes, and clothing and avoid breathing mist or spray. Refer to the current Safety Data Sheet (SDS) for complete hazard, PPE, first-aid, and emergency-response 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.

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