JMN SPECIALTIES, INC.
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PRODUCT BULLETIN

AC 9575 INDUSTRIAL SCALE REMOVER

For Mixed Rust and Light Mineral Contamination

General Description

AC 9575 INDUSTRIAL SCALE REMOVER is a premium, inhibited acidic liquid formulation designed for the removal of **rust, light mineral scale, and mixed oxide contamination** from piping, heat exchangers, pumps, separators, and other water-contact systems. Formulated with a synergistic blend of **sulfamic acid and glycolic acid**, enhanced with **advanced corrosion inhibitors and phosphonate-based sequestrants**, AC 9575 provides rapid cleaning performance while maintaining control over base metal attack. The inclusion of a dual inhibitor system and dissolved metal control package allows **AC 9575** to effectively remove deposits while minimizing redeposition, smut formation, and secondary staining. This makes it particularly suitable for applications involving **carbon steel systems with mixed rust and light-scale contamination**.

Applications

AC 9575 INDUSTRIAL SCALE REMOVER is recommended for the cleaning of carbon steel piping and circulation systems where rust contamination and light mineral scale are present. It is well suited for use in cooling water systems, heat exchangers, pumps, separators, and related process equipment where deposits can impact performance and flow. The product is effective for hydrotest cleaning, system restoration, and the removal of rust formed during storage or idle conditions. AC 9575 is particularly useful in applications involving mixed rust and light scale contamination in industrial and marine environments, where a single-step cleaning solution is preferred to restore system cleanliness and operational efficiency.

Features and Benefits

AC 9575 INDUSTRIAL SCALE REMOVER is formulated to effectively remove mixed contamination, including rust, iron oxides, and light mineral scale, in a single cleaning step. The inhibited acid system provides controlled cleaning action that minimizes base metal attack while maintaining strong deposit removal capability. An enhanced dissolved iron control package helps prevent redeposition, smut formation, and secondary staining during cleaning operations. The low-foaming wetting system improves surface penetration and cleaning efficiency in circulation applications, while the formulation remains compatible with carbon steel and common industrial alloys when used as directed. The flexible dilution range allows the product to be used for light maintenance cleaning through heavy rust removal, making it a versatile solution across a wide range of industrial cleaning applications.

Directions for Use

AC 9575 is designed for use over a wide concentration range depending on contamination severity.

- **Light rust / light contamination:**
  Dilute **1 part product with 11–19 parts water** (5–8%)
- **Moderate rust / mixed contamination:**
  Dilute **1 part product with 5–9 parts water** (10–15%)
- **Heavy rust / severe contamination:**
  Dilute **1 part product with 3–4 parts water** (20–25%)

Circulate or soak for **30 to 90 minutes** depending on system conditions. Monitor cleaning progress during use. Do not allow the solution to dry on surfaces. After cleaning, **rinse thoroughly with clean water** to remove all residues. For carbon steel systems, a **neutralization rinse and immediate preservation** (oil or corrosion inhibitor) is recommended to minimize flash rusting.

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Compatibility

AC 9575 INDUSTRIAL SCALE REMOVER is compatible with carbon steel, stainless steel (including 304 and 316), copper, and copper alloys when used at recommended concentrations and contact times. The formulation is also generally compatible with common elastomers such as EPDM and Viton; however, compatibility should be verified prior to use in critical systems. The product should not be used on aluminum, zinc, galvanized surfaces, or acid-sensitive coatings, as damage may occur. As with all acid cleaning systems, thorough rinsing and appropriate post-cleaning treatment are recommended to ensure complete removal of residues and to maintain system integrity.

Environmental Information

AC 9575 contains biodegradable surfactant components and is designed for controlled industrial cleaning applications. Spent solutions will contain dissolved metals and should be handled accordingly. Do not discharge untreated solution to surface waters or storm drains. Neutralization and proper disposal in accordance with local, state, and federal regulations is required.

Regulatory Information

This product is intended for industrial and professional use. Users are responsible for ensuring compliance with all applicable regulations regarding use, handling, and disposal.

Physical Properties

Appearance Clear to light amber liquid
Odor Mild acidic
pH (as supplied)< 2.0
Specific Gravity @ 25°C 1.10 – 1.15
Solubility in Water Complete
Flash Point Non-flammable (aqueous system)
Foam Low

(Typical values; not a specification)

Availability

AC 9575 is available in UN approved 5-gallon pails, and 55-gallon drums and bulk quantities.

Handling and Safety

Observe all hazard warnings on the label. Use standard precautions for handling acidic industrial chemicals. Avoid contact with skin, eyes, and clothing. Use appropriate personal protective equipment. For industrial and professional use only. Not for household, food, or pharmaceutical use.

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