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

PRODUCT BULLETIN

PHOSTREAT 7300

Acidic Phosphating Cleaner and Rust Remover for Carbon Steel System Preparation and Cleaning

Product Description

PHOSTREAT 7300 is a water-dilutable acidic de-rusting and phosphatizing treatment designed for cleaning, conditioning, and preparation of carbon steel systems. This formulation utilizes a balanced blend of phosphoric acid and auxiliary acid components to effectively dissolve iron oxides, remove fabrication residues, and produce a light, uniform phosphate conversion layer on steel surfaces. The product is specifically engineered for circulation cleaning of piping systems, vessels, and equipment where controlled oxide removal and surface conditioning are required prior to commissioning or return to service.

Typical Applications

PHOSTREAT 7300 is intended for use in the preparation of new carbon steel systems as well as the cleaning and refurbishment of existing systems. For new systems, the product is used following an alkaline degreasing step to remove residual fabrication oils, greases, and shop contaminants. Once degreased and rinsed, **PHOSTREAT 7300** is circulated through the system to remove flash rust, light oxidation, and fabrication scale while producing a conditioned phosphate surface that improves corrosion resistance and system readiness. This process is particularly suited for oil piping, process lines, storage vessels, and related carbon steel equipment prior to commissioning. For existing systems, **PHOSTREAT 7300** can be used to remove accumulated corrosion products, light scale, and deposits formed during service. The product is effective in restoring system cleanliness and improving internal surface condition prior to maintenance, inspection, or reactivation. In these applications, the product is typically circulated at higher concentrations or for extended contact times depending on the severity of fouling. Following treatment, systems should be thoroughly rinsed and, where required, treated with an alkaline passivation solution to neutralize residual acidity and stabilize the metal surface. The product is suitable for both pre-commissioning cleaning and maintenance cleaning programs where controlled oxide removal and surface conditioning are required.

Features and Benefits

PHOSTREAT 7300 provides effective removal of light to moderate rust, mill scale residue, and fabrication contaminants while simultaneously conditioning carbon steel surfaces through phosphate conversion. The formulation offers controlled metal attack, allowing removal of oxides without excessive base metal loss under controlled operating conditions. Built-in wetting agents enhance penetration into complex piping geometries, weld areas, and dead legs, ensuring thorough cleaning coverage during circulation. Iron-control additives help maintain dissolved metal in solution, reducing redeposition and sludge formation. The product is suitable for ambient-temperature use, allowing flexible field application without the need for heating. **PHOSTREAT 7300** is designed to rinse clean and prepare surfaces for subsequent passivation or immediate introduction into service.

Compatibility

PHOSTREAT 7300 is intended for use on carbon steel systems. The product is not recommended for use on aluminum, zinc, galvanized steel, or other acid-sensitive materials unless compatibility has been confirmed through testing. Care should be taken when used in mixed-metal systems, as localized corrosion of sensitive alloys may occur under acidic conditions.

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

Directions for Use

PHOSTREAT 7300 is designed to be diluted with water prior to use. For new system preparation, typical use concentrations range from 10% to 20% by volume, with 15% being a common starting point. The solution should be circulated through the system under ambient conditions for approximately 4 to 8 hours, or until surfaces are visibly clean and uniformly conditioned. Longer circulation times may be used as needed depending on the level of oxidation present. For existing system cleaning, concentrations of 15% to 25% may be employed, with extended circulation times to address heavier deposits or corrosion products. After treatment, systems should be thoroughly flushed with clean water to remove residual acidity and dissolved solids. A final alkaline passivation step is recommended to neutralize remaining acid and reduce the potential for flash rust prior to service.

Environmental Information

PHOSTREAT 7300 is a water-based acidic formulation that does not contain heavy metals or chlorinated solvents. The product is not expected to persist in the environment as a defined compound and will dissociate into common inorganic constituents. The primary environmental considerations are localized pH reduction and nutrient contribution from phosphate. Spent solutions should be neutralized and handled in accordance with local, state, and federal regulations. Avoid uncontrolled discharge to surface waters or storm drains.

Regulatory Information

PHOSTREAT 7300 is intended for industrial use only and is supplied in compliance with applicable U.S. regulatory requirements. The product may be classified as a corrosive liquid depending on concentration and packaging. Users are responsible for ensuring compliance with all applicable handling, storage, transportation, and disposal regulations. Refer to the Safety Data Sheet (SDS) for detailed hazard and regulatory information. For industrial and professional use only. Not for household, food, or pharmaceutical use.

Physical Properties

Appearance	Clear to slightly hazy liquid
Color	Colorless to light amber
Odor	Mild acidic
pH (concentrate)	< 1.5
Specific Gravity	~1.30 – 1.35
Solubility in Water	Completely miscible
Flash Point	Not applicable (water-based)
Freezing Point	< 32°F (0°C) (estimated)

(Typical values; not a specification)

Availability

PHOSTREAT 7300 is available in UN approved 5-gallon pails, and 55-gallon drums and bulk quantities.

Handling and Safety

This Product is intended for industrial and professional use in manufacturing and maintenance operations. For industrial and professional use only. Not for household, food, or pharmaceutical use. Avoid contact with skin, eyes, and clothing. Use appropriate personal protective equipment including chemical-resistant gloves, goggles or face shield, and protective clothing. Ensure adequate ventilation during handling and use, particularly in confined or enclosed spaces. Do not breathe mists or vapors. Always add **PHOSTREAT 7300** to water during dilution to minimize heat generation and splashing. Do not mix with incompatible materials such as strong oxidizers or alkaline products unless specifically directed. Wash thoroughly after handling. Refer to the Safety Data Sheet (SDS) for complete safety, handling, and regulatory information.

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