



# Phos & Clean LF-22

## ***Low Foam Steam & Clean Phosphate***

LF-22 is a high solids metal cleaner and iron phosphate treatment for use in steam cleaners, pressure wash-wand units, and spray systems. Low foam for use in recirculating systems where foam can be troublesome. Excellent grease, oil and soil removal.

LF-22 provides paint and coating preparation which bonds and enhances corrosion resistance of large hard to finish products. For use on all metals of steel, zinc, galvanize and aluminum

LF-22 meets all specifications requiring a cleaner/iron phosphate treatment. Coating weights of 40-75 mg/ft. Meets the requirements of: SPEC AMS-2480-F., MIL Spec TTC-490 TYPE II

## **Features & Benefits**

- Rapid cleaning and providing an amorphous iron phosphate coating
- Easily removes difficult oils, greases, smut, light rust and films
- Milder To Employees And No Strong Odors
- Liquid which is easily mixed into feeders and mixing valves
- Provides superior corrosion resistance and bonding of paints
- Attacks difficult smut and surface residues
- Can be used on steel, aluminum and zinc galvanize
- Meets requirements of government and automotive specifications

## **Physical Data**

pH	~2.5
Product Type	Liquid
Spec. Gravity	1.12
lbs./gal.	9.34
Foam, 0 = Low, 9 = High	9
Shelf-Life Years	10 Years
Freeze Information	Not damaged by freezing

## **Typical Processing**

1. Air “blow-off” unit to be cleaned and phosphate coated. (Surface Dust)
2. Apply LF-22 at: Steam Wand: 1/2-3% for 30-120 sec., 150-212 deg.F; Spray (Steel) 2-5% for 1-2 minutes, pH 4.5-5.5 @ 115-150 deg.F; Spray (Aluminum) 2-5% for 2-5 minutes, pH 4.0-4.5 @ 115-150 deg.F



3. Soak: 3-5% for 2-5 minutes, pH 4.5-5.5 @ 115-150 deg.F
4. Apply evenly to the surface. If items are large start at the bottom.
5. (Optional) rinse with warm water and dry completely to prevent rusting or oxidation. Note a sealer rinse can be used such as NCS-100
6. Dry

## Packaging

Container Type	Poly
Net Units	528
Tare Wt.	25
Gross Wt.	553
DOT_Name	Not regulated by DOT
DOT Hazard	Not regulated by DOT
Tarriff ID	2835.22.00

## Use Parameters

Concentration Range	0.5 - 5% by volume
Temperature Range	120 – 212 F
Time Range	30 – 120 seconds ~
Agitation	As necessary

## Waste Disposal

Neutralize pH, remove fats, oils, grease and heavy metals.

## Holding Tank Materials of Construction

Acid resistant, stainless or poly.

## Other Information

It is important that the OSHA DATA, "Material Safety Data Sheet" be carefully read and reviewed with the users of this product. OSHA data is required to be posted in the work area by law



**WARRANTY:** HUBBARD-HALL INC. IS NOT RESPONSIBLE FOR THE MISUSE, MISAPPLICATION, OR MISHANDLING OF THIS PRODUCT. SEE THE TERMS AND CONDITIONS OF SALE ON OUR WEBSITE FOR ADDITIONAL TERMS AND CONDITIONS CONCERNING OUR PRODUCTS, INCLUDING BUT NOT LIMITED TO, LIMITATIONS AND DISCLAIMERS OF WARRANTIES AND LIABILITIES.

---

## Our People. Your Problem Solvers.

For more information on this process,  
please call us at 203.756.5521 or email: [techservice@hubbardhall.com](mailto:techservice@hubbardhall.com)

Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution, as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem**<sup>136</sup>.