



# Phos & Clean HS-444

## Steam & Clean Metal Treatment

HS-444 is a premium metal cleaner and iron phosphate treatment for use in steam cleaners, pressure wash-wand units, and soak tanks. Excellent grease, oil and soil removal.

HS-444 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.

HS-444 meets all specifications requiring a cleaner/iron phosphate treatment. Coating weights of 25-75 mg/ft. Internally accelerated for maximum performance. Meets requirements of 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	~4.0
Product Type	Liquid
Spec. Gravity	1.09
lbs./gal.	9.09
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.
2. Apply at: Steam 1-4% for 30-120 sec.
3. Soak 3-5% for 2-5 minutes.



4. Temperature = 120-212 Deg. F.
5. pH = 3.5-5.5
6. Apply evenly to the surface. If items are large start at the bottom.
7. (Optional) Rinse with warm water and dry completely to prevent rusting or oxidation. Note: a sealer rinse can be used such as NCS-100.
8. Dry.

## Packaging

Container Type	Poly
Net Units	500
Tare Wt.	25 lb.
Gross Wt.	525
DOT_Name	Not regulated by D.O.T.
DOT Hazard	Not regulated.
Tarriff ID	

## Use Parameters

Concentration Range	1-5% 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.

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