



Bond Guard 2002-LTF

Detergent & Iron Bonding

A 3-5 STAGE superior quality metal cleaner and Iron Phosphating compound for steel and mixed metals of zinc, galvanize, and aluminum. Provides excellent detergency, low foam at 80 f. and film free rinsing. Low cost performer.

Provides excellent removal of difficult oils, lubes, smut, and other materials. Provides extended levels of corrosion protection in salt spray testing exposure. Up to 1000 hours can be obtained.

Meets various quality specifications of automotive, government and military requirements. For steel and mixed metal systems for maximum process versatility.

Features & Benefits

- High detergency: Removes difficult lubes, oils and grease.
- Heavy coatings: Up to 80 mg/ft²
- Provides lowest cost and economy for processing
- Controlled foam at temperatures down to 80 F
- High solids liquids for automatic feeding
- Low sludging system
- Filterable
- Controlled low foam for cold start-ups of equipment.

Physical Data

pH	2.8
Product Type	Liquid
Spec. Gravity	1.085
lbs./gal.	9.05
Foam, 0 = Low, 9 = High	0
Shelf-Life Years	10 Years
Freeze Information	Not damaged by freezing



Typical Processing

1. Bond Guard 2002-LTF, 2-3% by volume, 85-140 F., 80 Sec., PH 4.8
2. Rinse
3. Rinse, with sealer conditioner optional, NCS-3 or FR-1 @.2%
With PH at 4.5-6.0. (Note FR-1 is a non-molybdate product)
4. Deionized water rinse optional
5. Air blow off. (Dry ovens should not exceed 250 f. for iron phosphates)
6. Paint

Packaging

Container Type	Poly drum, tote
Net Units	497
Tare Wt.	25
Gross Wt.	523
DOT_Name	UN 1805, Phosphoric Acid Solution, 8, PG III
DOT Hazard	Corrosive
Tarriff ID	

Use Parameters

Concentration Range	2% - 4%
Temperature Range	100 – 160 Deg. F.
Time Range	75 - 180 seconds
Agitation	Spray

Waste Disposal

Neutralize.

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

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**¹³⁶.