Product Bulletin
Product Name: Phos Oil #240
Product Code: 2052101
Revision Date: January 31, 2024

B-55 EMULSION

FORD TOX #002618

SURFACE INHIBITOR AND WASH

B-55 is an emulsion type corrosion inhibitor and blank wash cleaner for metal surfaces, including aluminum and galvanize.

B-55 provides an economical product for use on all surfaces and over a wide temperature range. Also very popular for BLANCHARD GRINDING, LIGHT DUTY METAL CUTTING / MACHINING, ANTI-RUST ETC.

B-55 provides good cleaning and excellent in-process corrosion protection on metal surfaces. Provides 2-6 months or storage rust protection to metals. Also provides excellent salt spray results over phosphate and black oxide coatings.
Ideal lowest cost spray wash for in-process parts where and emulsion is suitable.

B-55 is a light oily fluid which emulsifies in water. High emulsion stability. Nearly dry to touch film. B-55 can also be used as a machining and grinding fluid for all metals. FORD TOX #002618. NOTE: FOR A SIMILAR MATERIAL PROVIDING HIGHER OIL FILM BUILD SEE B-56 EMULSION. (10-2019)

Features & Benefits

- Corrosion protection to surfaces. Stops rust and stain. Salt Spray & humidity.
- MEETS MINIMUM 10 DAY HUMIDITY CABINET TEST TO RED RUST. (Equates to 2-6 months or more of storage of steel parts in wwh environment) Low oily residue, without tackiness.
- Good surface cleaning. Removes chips, fines and oils.
- Provides a stable long-lasting emulsion.
- Easily treated in wastewater treatment facilities. Emulsions split easily.
- No odors.
- Non foaming.
- For use on all types of surfaces: steel, non-ferrous, plastic.

Physical Data

pH	8+
Product Type	Oil
Spec. Gravity	.875
Lbs./gal.	7.30
Foam (0=Low; 9=High)	0
Shelf Life	10 years

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Freeze Information	Not damaged by freezing

Typical Processing

1. Use at 2-25% by volume with water. (as inhibitor = 5- 15%) typical.
2. Use in spray washers or dip tanks. (2-5% as Metal Wash)
3. Applied usually warm. 100-160 deg. F. (to facilitate drying of parts)
4. Time: As required to remove surface residues. 30 seconds and up.
5. 2-5% = 30 - 90+ days rust protection (dry warehouse conditions)\
6. 5-15% = 2 - 4+ months rust protection (dry warehouse conditions)
7. 10 - 25% = 4-12+ months rust protection (warehouse conditions)
8. Can be easily removed with an alkaline or solvent wash if necessary.

Packaging

Container Type	Poly
Net Units	401
Tare Wt.	25
Gross Wt.	426
DOT_Name	Not regulated by DOT Not subject to IATA Regulations for Air
DOT Hazard	Not regulated
Tariff ID	3403.11

Use Parameters

Concentration Range	2-5% as Wash, 10-15% as RP
Temperature Range	70-160 deg. F.
Time Range	30 SECONDS AND UP
Agitation	AS NECESSARY.

Waste Disposal

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

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Holding Tank Materials of Construction

Steel, 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.

Testing, Operating & Trouble Shooting Data

B-55, EMULSION **FORD TOX #002618**
SURFACE INHIBITOR AND WASH
Refractance = A Direct Reading: On American Optical Hand Held Unit Or Equivalent. 2% = 2.0 Units, 5%=5.0, Etc. Refractometer # = % By
Volume
Ph Control:
Ph Maintain 8.0--10.5 Use Dilute Potash 45% Or Torch Booster 45 (use Dilute Material When Using High Alkali Products.
(example Make A 2-5% Solution Of Booster 45 And Add Slowly.)
Acid Split % Concentration:
Note: Exacting Discipline Must Be Used When Obtaining A Sample. Extract Samples From Below The Solution Surface (2-3 In.) To Assure
That Floating Oils, Soils, Or "tramp" Oils Are Not Included In The Sample. This Would Cause Test Results That Are Not Accurate.
1) Transfer 50 Mls Into A Graduated Cylinder
2) Add 25 Mls Of Hydrochloric Acid. Stir & Mix Well....
3) Allow 1/2 - 12 Hours For Solid Oil Float To Form.
4) The Number Of Mls Of Solid Oily Fluid Multiplied By 2 = % Concentration.
Note: It Is Important That The Split Floating Layer Is Solid Oil. In Some Cases An Opaque Appearance Indicates Entrapped Sludge Or Water
In The Layer. It Should Look Like Motor Oil.
If Not, Add 5 Mls Of 99% Ipa Or Butyl Cellosolve, Or A Glycol To Help Split Water And Sludge From The Oily Layer, (stir Into Layer). (don't
Forget To Subtract The Number Of Mls Of Ipa Added When Doing Your Calculation. The Solvent Helps Extract The Oil From The Water).

Emulsion Stability Issues: The Use Of Emulsion Stabilizer #61 Will Improve The Stability In Harsh Operating Conditions

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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].