

Power Soak LS-250

SUPER HEAVY DUTY METAL CLEANER

LS-250 is a super heavy duty, alkaline soak cleaner and surface renovator for steel, stainless steel surfaces. Superior results when removing difficult lubricants & burned on residue. A full sodium system.

LS-250 removes difficult residues such as rust, oxides, paints, lubricants, surface stains and other residues. Used in soak tanks on barrel phosphate and plating lines.

LS-250 is a high solids liquid which provides superior quality, low use cost and high-performance results. LS-250 effectively splits and floats emulsified oils.

Features & Benefits

- Low use cost.
- Biodegradable.
- Superior rinsing with hot or cold water.
- Can be automatically metered and fed into process systems.
- Provides a single product which can be used for many different jobs.
- Provides an extended tank life eliminating costly discharge.
- No odors, dyes, and non-phosphated.

Physical Data

pH	13
Product Type	Liquid
Spec. Gravity	1.42
lbs./gal.	11.84
Foam, 0 = Low, 9 = High	8
Shelf-Life Years	10 years
Freeze Information	Not damaged by freezing

Typical Processing

Barrel line:

1. Soak tank: Temperature = 140-200 F. (or lower)
2. Concentration = 2-8% by volume.

Note: For very difficult heat treated or burned metal surfaces, provide slightly higher concentrations, or temperature or time



Packaging

Container Type	Poly
Net Units	651
Tare Wt.	25 lb.
Gross Wt.	676
DOT_Name	UN 1824, Sodium Hydroxide Solution, 8, PG II
DOT Hazard	Corrosive
Tarriff ID	2815.12

Use Parameters

Concentration Range	2-10%
Temperature Range	90-180 F.
Time Range	1-20 minutes
Agitation	As required

Waste Disposal

Neutralize, removes fats, oils, and grease.

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

Free Alkalinity Lab Titration Procedure:

- 1) Pull A 10 MI Sample
- 2) Add 20 - 25 Mls Di Water
- 3) Add 6 - 8 Drops Of Phenol Indicator
- 4) Titrate With 1.0 N Acid Until Color Changes From Pink To A Colorless Endpoint.
- 5) Multiply The # Of Mls X A Factor Of **0.88** = % By Volume

Free Alkalinity Field Dropper Procedure:

- 1) Take A 1ml Sample
- 2) Add 20 - 25 Mls Di Water
- 3) Add 6 - 8 Drops Of Phenol Indicator
- 4) Add Drop By Drop Of 1.0 N Acid Until Color Changes From Pink To A Colorless Endpoint
- 5) Count The Number Of Drops Required For A Color Change
- 6) The # Of Drops Multiplied X By A Factor Of **0.4** = % By Volume

Total Alkalinity Lab Titration

- 1) Pull A 10 MI Sample
- 2) Add 20 - 25 Mls Di Water
- 3) Add 6 - 8 Drops Of Bromocresol Purple
- 4) Titrate With 1.0 N Acid Until Color Changes
- 4) Record The # Of Mls Required

Total Alkalinity/ Free Alkalinity Ratio (target < 2.0)

Divide The # Of Mls Of Total Alk. Divided By The Mls Of Free Alkalinity

Refractance Chart (Oils And Solids Must Be Allowed To Separate For Approximate Accuracy)

10% = 9.5

7% = 6.5

5% = 4.0

Bath Control Refractance/contaminants Ratio: (target <2.0)

- 1) Multiply The % Concentration By A Factor Of .95 (% Conc From Free Alk Factor Above)
- 2) Record Results As **R1 = Target Refractance**
- 3) Take An Actual **Refractance** Reading Of The Bath. Record The Number As **R2** .
 A **Refractance R2** Number Over The R1 **Target Refractance** Number = Level Of Contaminants.
- 4) Formula: $\frac{R2}{R1}$ = Refractance/contaminant Ratio: Target < 2

Example: A 5% Solution Of Ls-250

Target Refract (r1) = 4.75 (5 X .95 Factor)

Refractance Of Bath (r2) = 10

R2 Divided By R1, 10 / 4.75 = 2.1 Ref/cont Ratio (exceeds 2.0, Time To Evaluate Decanting Bath)



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Our People. Your Problem Solvers.

For more information on this process,
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