



Product Bulletin

Product Name: POWER CLEAN # 499 Lo-Foam

Product Code: 2055057

Revision Date: October 23, 2025

POWER CLEAN # 499 Lo-Foam

LOW-FOAM HEAVY DUTY ALKALINE CLEANER

POWER CLEAN # 499 is a heavy duty, low foam, cleaner for steel. Provides in process stain, rust protection to steel. Ideal choice for zinc or manganese phosphate removal & draw lube coatings. Excellent grease and oil removal with low foam rinsing. #499 is also an ideal choice for cleaning cold headed fasteners and other difficult applications.

POWER CLEAN # 499 Attacks difficult oils, soils, greases, and other residue which can interfere with final processing. Attacks burned on lube residue with extra surface wetting. Provides rust protection to un-rinsed steel surfaces for process protection. Also recommended prior to manganese phosphate for enhancing grain structure.

#499 is a premium metal cleaner used for oil & grease removal, stripping lubricants, phosphate coatings, rust, oxides, and smut. Long solution life for maximum low cost and productivity. Tough on cold forming lubricants.

bonding without conversion coatings present. simply clean surface.

Features & Benefits

- Biodegradable, Non-phosphated
- No Odors.
- Use Where Low -foam Is Critical.
- Can Also Be Used Prior To Auto-phoretic Coating Processes, Elpo, E-coat, Phosphating, Plating, Or In Process Cleaning.
- Provides Rust and Stain Protection for Unrinsed Parts.
- Low Use Cost.
- Filterable And Readily Splits Oils for Recovery.
- Effective In "hard Water" Applications.



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Physical Data

pH	13+
Product Type	Liquid
Spec. Gravity	1.30
lbs./gal.	10.84
Foam, 0 = Low, 9 = High	1
Shelf-Life Years	10 years
Freeze Information	Not Damaged by Freezing

Typical Processing

Power Wash Applications (Stripping Lube Coatings) :

3-8% By Volume, 150-190 Deg. F., 120 Sec. , 25 Psi Spray.

Lower Process Temperatures Should Be Tested As Time Permits Per Process.

Low Foam Soak Tank Cleaner:

3-8% By Volume, 140-180 Deg. F. 2-10 Min. Light Agitation.

Vibratory Deburring And Finishing, (controlled Foam) 1/4-2% By Volume. Time As Needed.

Packaging

Container Type	Poly
Net Units	595
Tare Wt.	25
Gross Wt.	Un 1824, Sodium Hydroxide Solution, 8, PG II
DOT_Name	Not regulated by DOT.
DOT Hazard	Corrosive
Tarriff ID	N/A

Use Parameters

Concentration Range	3-10% By Volume Temperature
Temperature Range	100-190 F.
Time Range	1-10 Min.
Agitation	Spray Or Soak



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Waste Disposal

Neutralize, Remove 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

Titration Procedure For % Concentration (Free Alkalinity)

- 1) Take A 10 MI Sample Of Solution
 - 2) Add 10-20 Mls Deionized Water
 - 3) Add 5-10 Drops Of Indicator #1, Phenolphthalein
 - 4) Titrate Sample Sample Using 1.0n Acid - Color Change from Pink To Clear
 - 5) The Number Of Mls Required Multiplied by A Factor Of 1.35 = % By Volume
- Ex) 4.0 Mls = 5%

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

- 1) Multiply The % Concentration by A Refract Factor Of .40 (% Concentration Determined From Free Alk Factor Above)
 - 2) Record Results as **R1= Target Refractance**
 - 3) Take A **Refractance** Reading Of The Bath. Record The Number As R2 .
A **Refractance R2** Number Over The (r1)target Refractance Number = Level of Contaminants.
- 3) Formula: $\frac{R2}{R1} = \text{Refractance/contaminant Ratio: Target } < 2$

Example: A 5% Solution Of 499
Target Refract (r1) = 2.0 (5 X .40 Factor)
Refractance Of Bath (r2) = 4.0
R2 Divided By R1 = 2.0 Ref/cont. Ratio



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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.