Lusterclean™ ALS

Product Code: 2052113
Revised Date: 4/29/2019

Lusterclean™ ALS
Phosphate Free Product

Lusterclean™ ALS is a mildly alkaline, phosphate, borate, and silicate free, water soluble, liquid product developed for cleaning all metal (except magnesium) without affecting their luster. It is designed for heavy-duty applications.

The special blend of detergents in **Lusterclean™ ALS** will emulsify and disperse soils such as lard oil, sulfurized and chlorinated oils, general shop oil and certain identification inks present on aluminum alloys. It is extremely effective at removing fine particulate soils from metal surface that are common on parts that have been deep drawn.

The other feature of **Lusterclean™ ALS** is its ability, when used hot with agitation, or as an ultrasonic cleaner, to remove buffing compounds from aluminum, brass, bronze, steel, stainless steel and zinc die-castings.

Note: **Lusterclean™ ALS** is an excellent pre-soak cleaner. However, it will not clean to a water-break-free surface. Thus, **Lusterclean™ ALS** would find application where the requirements are such that a water-break-free surface is not required. Furthermore, the residual invisible film on the surface of the metal does possess limited corrosion preventative properties. This invisible film is immediately removed in an alkaline soak cleaner such as Hubbard-Hall's **Aquaease PL 85**.

ADVANTAGES

- fast dissolving - dissolves in water at any temperature.
- safe to use - mildly alkaline - non-flammable.
- fast acting cleaner - parts are cleaned rapidly.
- non-corrosive and non-fuming.
- phosphate free

OPERATING CONDITIONS

Concentration	2 to 5% (volume)
Temperatures	150 to 200F (65 – 93C)
Time	150 to 200F (65 – 93C)
Equipment	mild steel tank and heating coils
Agitation	required for removal of buffing or polishing compounds
Ventilation	not required

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ULTRASONIC CLEANING

Concentration	3 to 5% (volume) maximum
Temperature Range	140 – 160F (60 – 71C)
Time	30 seconds to 1 1/2 minutes

TITRATION PROCEDURE

1. Pour a 100 ml sample of **Lusterclean™ ALS** into a 250 ml Erlenmeyer flask, use 100 ml graduate to dispense solution.
2. Add 1 ml LaMotte yellow indicator - swirl flask to insure complete mixture.
3. Titrate with 0.5 N HCl or sulfuric acid until the solution turns from yellow to definite pink.
4. Record mls of acid used.

Concentration Lusterclean™ ALS 42 (% VOL) = 0.32 X MLS 0.5 N HCL Used.

TEST KIT PROCEDURE

1. Using syringe, place 10 mls of **Lusterclean ALS** into Test Bottle.
2. Add ~20 mls of water.
3. Add 8-10 drops of Metyhl Orange indicator.
4. Add N-94 Test Solution drop-wise until color changes from yellow to pink.

%/vol Lusterclean ALS = Drops N 94 used X 0.20

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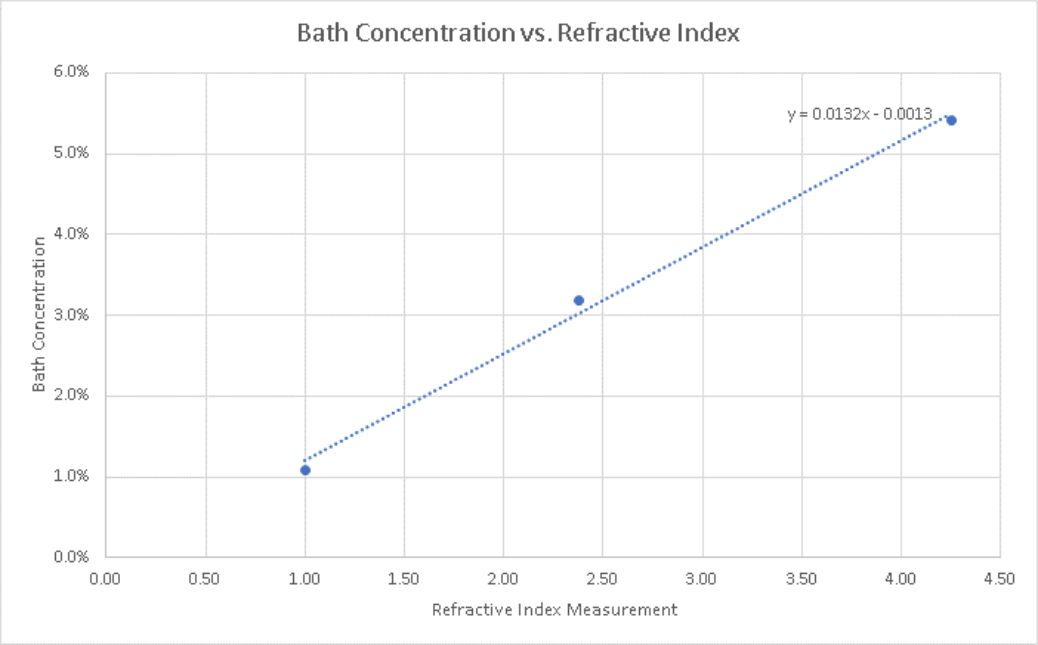
Suggested control procedure (with accompanying chart):

Take a bath sample cool to approximately room temperature. Place a drop of the sample on the measuring prism of a brix scale refractometer. Look through the eyepiece while aiming the instrument towards a light source. Bath concentration = 1.33 x refractive index measurement.



CAUTION

Lusterclean™ ALS is a mildly alkaline product and should be handled accordingly. Avoid skin and eye contact. Wear protective clothing, goggles and gloves. Flush exposed areas immediately with clean cold water. Contact a doctor promptly in case of injury.

WASTE DISPOSAL

Discharge to a disposal system. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

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WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.

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