



Product Bulletin

Better Chemistry. **Better Business.**

Lusterclean™ RS

Product Code: 2052010
Revised Date: 2/29/2016

Lusterclean™ RS **(Phosphate Free Product)**

Lusterclean™ RS is a mildly alkaline, phosphate free, water soluble, liquid product developed for cleaning all metal (except magnesium) without affecting their luster.

The special blend of detergents in **Lusterclean™ RS** will emulsify and disperse soils such as lard oil, sulfurized and chlorinated oils, general shop oil and certain identification inks present on aluminum alloys.

The other feature of **Lusterclean™ RS** 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™ RS** is an excellent pre-soak cleaner. However, it will not clean to a no water break-surface. Thus, **Lusterclean™ RS** would find application where the requirements are such that a no water-break 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 cleaners 187b, cb-1, 520a and 520b.

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:	3 to 10% (volume).
Temperatures:	150 to 200F (65 – 93C).
Time:	2 to 10 minutes.
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™ RS** 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.

$$\text{Concentration Lusterclean™ RS (\% VOL)} = 0.72 \times \text{MLS } 0.5 \text{ N HCL}$$

Test kit procedure

1. Fill test bottle 1/2 full of water
2. Using syringe, add 10 mls of **Lusterclean™ RS** solution
3. Add 5-10 drops Methyl Orange Indicator.
4. Add dropwise, 0.72 N Hydrochloric Acid
5. Record drops of 0.72 N Hydrochloric Acid required to change solution from yellow to turbid pink.

$$\text{Lusterclean™ RS (\% VOL)} = 0.42 \times \text{Drops } 0.72 \text{ N Hydrochloric Acid.}$$

CAUTION

Lusterclean™ RS 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.