



LA-1 CLEAR - CLEANER

Technical Data Sheet

Description: **LA-1** clear-cleaner used to clean parts prior to penetrant inspection. **LA-1** is a clear, straw colored liquid, that can be used on all metals – ferrous and non ferrous – including aluminum, magnesium, high nickel, and titanium alloys. It removes light shop oils such as cutting oils, forming oils, light rust preventatives and organic soils acquired during processing. It also removes grit and chips when used as a pressure – spray or as an agitated – immersion. It does not remove inorganic soils such as corrosion products.

Chemical Properties

Color: Straw colored liquid

Viscosity: cSt @ 100°F

Companion Products

All fluorescents and visible penetrants

Packaging

55 Gallon Drums

Five Gallon Cans

Storage/Shelf Life

Keep away from moisture and sunlight.

Temperature limit: 40°F to 125°F (0-50°C)

Keep the container closed when not in use.

Shelf life from invoice date: Bulk Container – 36 months

Specifications

SAE ARP 1755B

ASTM F945



Special Features

1. Penetrant compatible
2. Safe on aluminum, magnesium, high nickel steel and titanium alloys
3. No chromates, chlorine, sulfur, or sodium salts
4. Low foaming
5. Free rinsing
6. May be used with air or mechanical agitation
7. Effective in low concentrations

Instructions

Note: These instructions describe the basic process, but they may need to be amended by the user to comply with applicable specification and /or inspection criteria provided by the contracting agency.

1. **Application:**

a) Spray Application: Use **LA-1** at a 3-5% concentration by volume in water in a recirculating spray system. **LA-1** is effective at room temperature, a temperature of 120-140°F (48-60°C) with spray a spray pressure of 20-35 psi improves the cleaning. Contact time is 1 to 2 minutes.

b) Immersion Application: Use **LA-1** in an air or mechanically agitated tank at a concentration of 10-20% by volume in water. The solution temperature should be between 120-140°F (48-60°C) for best cleaning. The length of time parts remain immersed in the tank depends on the type and degree of contamination upon removal, allow parts to drain over the immersion tank to minimize dry-out before rinsing. Maximum allowable spray or immersion time is 60 minutes. **LA-1** should be rinsed from the surface of the part before it has a chance to dry.

2. Rinsing: Thoroughly rinse the part with water, either by forceful spray or immersion in an agitated overflow tank. Water temperature can be ambient to 140°F (60°C) warm water is preferred. Rinse sufficiently to remove all cleaner/soil contamination from the surface. In areas of hard water, “de-ionized” rinse water is recommended.



3. **Drying:** Thoroughly dry the part prior to applying penetrant. Drying must be adequate not only to evaporate rinse water remaining on the surface but to evaporate rinse water that may have penetrated surface discontinuities.

4. **Solution Maintenance:** Add **LA-1** as necessary to maintain the concentration needed to meet cleaning requirements. Frequent small additions are preferred. The time between recharging will depend upon the type and amount of soil removed.

Health & Safety

ER-85 is a combustible liquid. Use with adequate ventilation and away from sparks, fire or open flames. Avoid prolonged or repeated contact with skin. Do not take internally. Consult the MSDS for more safety and health information.