Hubbard-Hall Cleaner 187 B

Product Code: 2002002
Revised Date: 11/6/2017

Hubbard-Hall Cleaner 187 B

Hubbard-Hall Cleaner 187 B is a heavy-duty non-etch alkaline soak cleaner for aluminum and alloys. The **Hubbard-Hall Cleaner 187 B** will remove oily soils as well as the identification inks (red, blue, and black) with ease and without attacking the aluminum.

Hubbard-Hall Cleaner 187 B is a two package cleaner. One (1) gallon of liquid additive Lusterbrite 60-L is packaged, within the drum, with the 390 lbs. of powdered material.

While **Hubbard-Hall Cleaner 187 B** was developed specifically for cleaning aluminum alloys, it may also be used as an immersion cleaner for: Copper, brass alloys, bronze alloys, zinc die castings, ferrous metals, stainless steels, titanium alloys, magnesium alloys, and nickel clad stock.

When cleaning zinc die-casting does not exceed 140°F

The original name assigned to Hubbard Hall Cleaner 187 B was AHCO 187B.

OPERATING CONDITIONS

Concentration: 4 to 10 oz/gal (30 to 75 gms/l) **Hubbard-Hall Cleaner 187 B**

For every 100 lbs. of **Hubbard-Hall Cleaner 187 B** powder, add 1 quart of the liquid

additive. Temperature range: 160 to 190f (71 to 88c)
Immersion time: 1 to 8 minutes
Equipment: mild steel tanks and heating coils

Note: **Hubbard-Hall Cleaner 187 B** should never be carried directly into an alkaline

etchant. The work must always be rinsed prior to alkaline etching.

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CONTROLS FOR DETERMINING CONCENTRATION OF HUBBARD-HALL CLEANER 187 B SOLUTION

TEST KIT PROCEDURE

Factor (oz/gal)	0.80
Factor (gm/l)	6.0

1. Fill sample bottle ¼ full with water. Using the syringe, transfer a ½ ml sample of **Hubbard-Hall Cleaner 187 B** into the sample bottle.
2. Add 5-10 drops of Methyl Orange Indicator.
3. Add 0.72 N Hydrochloric Acid Solution drop-wise until the color changes from yellow to an orange/red end-point.

   Record the number of drops of 0.72 N Hydrochloric Acid used.

Concentration Cleaner 187 B = Number of drops of 0.72 N Hydrochloric Acid **X Factor**

TITRATION PROCEDURE

Factor (oz/gal)	0.67
Factor (gm/l)	5.0

1. Pipette 10-ml sample of cleaner solution into a 250 ml Erlenmeyer flask and dilute to 100 mls with water.
2. Add 5-10 drops of Methyl Orange Indicator.
3. Titrate with 0.5 N Hydrochloric acid until the solution turns red.
4. Record mls 0.5 N Hydrochloric acid used.

Concentration Cleaner 187 B = 0.5 N HCL x Factor

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WASTE DISPOSAL

Discharge cleaner solution to a disposal unit and neutralize with a mineral acid to a pH between 6 to 8. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

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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