Cleaner P 005M

Cleaner P 005M is a phosphate and silicate powdered alkaline, heavy duty spray cleaner suitable for all metals such as aluminum alloys, brass, copper, bronze, ferrous metals, magnesium alloys, titanium alloys, zinc die castings, white metals, lead alloys, pewter, nickel, and tin.

Cleaner P 005M is formulated to perform in areas with very hard water.

Features & Benefits

High detergency	Use as a soak or spray cleaner
Contains no solvents	Easily waste treated
No chelating agents	Safe on all metals

Typical Applications

- In process spray cleaning
- Spray cleaning prior to plating
- Spray cleaning prior to phosphate conversion coating
- Spray cleaning prior to anodizing
- Transportation power washing

Operating Conditions

Concentration	1 – 6 oz/Gal (7.5 – 45 g/L)
Temperature	110°F – 150°F (43°C – 68°C)
Time	30 sec – 3 min
Equipment	Mild steel tanks and heating coils

Note: Due to the nature of the foam control agent used in Cleaner P 005M it is not recommended for use as a soak cleaner. The foam control agent will float on the top of the cleaner solution and may deposit on part as they are removed from the cleaner solution.

Titration Method

1. Pipette 10 mL sample into a 250 mL Erlenmeyer flask and dilute with 50 mL water.
2. Add 3 to 4 drops Phenolphthalein indicator, swirl flask to insure mixing.
3. Titrate with 0.5 N Hydrochloric Acid to a clear end point.
4. Record mL used.

Calculation

Factor (oz/Gal)	*0.87*
Factor (g/L)	*6.50*

Concentration = mL 0.5 N HCl x Factor

Test Kit Method

1. Fill test bottle 1/3 full of water.
2. Using a syringe add ½ m/L of Cleaner P-005 Solution.
   and transfer it into the test kit bottle.
3. Add 8 to 10 drops of Methyl Orange Indicator.
4. Add 0.72 N Hydrochloric Acid drop wise until the color change is observed.
5. Record the number of drops used.

Calculation

Factor (oz/Gal)	*0.67*
Factor (g/L)	*4.98*

Concentration = # Drops 0.72 N HCl x Factor

Waste Disposal

Discharge rinse water and spent cleaner solution to a permitted disposal system. Adjust pH to between 6.0 to 8.0 with mineral acid. Always consult local authorities for regulations in your immediate area.

Caution

Cleaner P 005M is an 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.

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For more information on this process,
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