Magic Dry

Product Code: 2509102
Revised Date: 05/31/2006

Magic Dry

Magic Dry is a chemical liquid formulation that helps to eliminate rejects and increases production in plating, tumbling and cleaning operations. It will also solve many staining, dullness and rusting problems.

PLATING

Magic Dry is used one to two oz. of **Magic Dry** per ten gallons of water in the final hot water rinse, which should be maintained at a temperature of 160-180°F. The **Magic Dry** incorporated into this final rinse will eliminate many staining difficulties and speed up drying time, resulting in stain-free and clean plated work. It will also add to the corrosion resistance of the plated metal.

TUMBLING

Magic Dry is used two to four oz. of **Magic Dry** per gallon of water in the final tumble rinse prior to drying. The **Magic Dry** in this final rinse will prevent staining, tarnishing and rusting.

CLEANING

Magic Dry can be added to regular alkaline cleaners in the proportions of one to two oz. of **Magic Dry** per gallon of alkali cleaner to increase detergency, wetting and cleaning.

Magic Dry will help produce cleaner, brighter work.

PHYSICAL DATA

Specific gravity: ..... 1.05 @ 72° F
Vapor pressure: ..... same as water
Percentage of volatility by volume: ..... zero
Vapor density (air =1): ..... same as water
Evaporation rate (ether =1):..... same as water greater than 1
Solubility in water: 100%
Appearance and odor: .... clear, non-viscous liquid, no appreciable odor
pH: ..... 7.0 to 9.0

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QUANTITATIVE CONTROL FOR MAGIC DRY

CONTROL KIT

125 ml Erlenmeyer Flask
10 ml Graduate Cylinder
2 oz Dropping bottle of Indicator-Methylene Blue A
4 oz Dropping bottle for N/5 Potassium Permanganate
1 pt Bottle of 50% (by volume) Sulfuric Acid

TITRATION PROCEDURE

1. Measure out 6 ml of **Magic Dry** solution into the 125 ml Erlenmeyer flask.

2. Using the graduate cylinder, first add 25 ml water and then add 10 ml of the 50% (by volume) sulfuric acid.

3. Add 5 drops of the indicator -- mix solution well -- then add the potassium permanganate slowly drop by drop, counting the drops and swirling the solution.

4. The end point is indicated by a color change from blue to a red or violet color. The number of drops of potassium permanganate used indicates the concentration of the solution and may be found in the accompanying table. Additions may be made accordingly to bring the solution back to full strength.

DROPS OF POTASSIUM PERMANGANATE	CONCENTRATION OF MAGIC DRY
20 drops	4.0 oz/gal.
19 "	3.8 "
18 "	3.6 "
17 "	3.4 "
16 "	3.2 "
15 "	3.0 "
14 "	2.8 "
13 "	2.6 "
12 "	2.4 "
11 "	2.2 "

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10 "	2.0 "
9 "	1.8 "
8 "	1.6 "
7 "	1.4 "
6 "	1.2 "
5 "	1.0 "
4 "	0.8 "
3 "	0.6 "
2 "	0.4 "
1 "	0.2 "

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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