

CLEANER 505

NON-ETCH CLEANER

INTRODUCTION

Cleaner 505 is a non-etch cleaner ideal for all cleaning applications where no attack on the base metal can be tolerated. The carefully balanced formulation ensures complete removal of shop soils and light buffing compounds including buffing compo prior to further processing. Cleaner 505 is an ideal cleaner when used with ultrasonics.

Cleaner 505 is especially recommended for cleaning polished surfaces of aluminum prior to anodizing, conversion chromate coating and plating. Other uses are cleaning non-ferrous metals including zinc based die cast (ZBDC), gold, silver, brass and copper. It may also be used to clean steel with light oils.

BENEFITS

- Excellent all around cleaner/ultrasonic cleaner
- Non-etch chemistry to protect sensitive metals
- High detergency for soil removal and prevent recontamination
- Free rinsing surfactants help prevent staining
- Dual purpose cleaner (soak and electroclean)
- Economical - long life with effective cleaning
- Meets aluminum prep ASTM B253 true non-etch cleaning (no pH buffers)
- Versatile - can be used on aluminum, ZBDC, gold, silver, brass, copper, and ferrous metals

SOLUTION MAKE-UP

Cleaner 505 35 – 100 g/L (50 g/L Optimum)

Manufactured for North America exclusively by **FOCUSTECH™**



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OPERATING DATA

Temperature	120 – 195°F
Time	30 seconds – 5 minutes
Agitation	Recommended on soak cleaning
Voltage	Cathodic 6 – 8 Volts / Anodic 4 Volts

EQUIPMENT

Tanks	Mild steel, Polypropylene, unplasticized PVC
Heaters	PTFE, stainless steel or mild steel all with thermostatic control

INSTALLATION

Equipment to be used for Cleaner 505 should be cleaned thoroughly before any product is added.

If there is any doubt as to the cleaning procedure contact Automated Chemical Solutions.

1. Add water to one-half tank volume.
2. Add and stir in required amount of Cleaner 505. Continue stirring until dissolved.
3. Add to level with water, mix and heat to operating temperature.

PROCESS SEQUENCE

The operating parameters of Cleaner 505 can be adapted to suit specific requirements. The following is given as a guide. If in any doubt as to the correct process sequence, contact Automated Chemical Solutions.

1. Degrease
2. Soak clean (Cleaner 505)
3. Rinse
4. Electroclean (Cleaner 505)
5. Rinse
6. Continue processing

MAINTENANCE AND CONTROL

The solution should be regularly analyzed and replenished as necessary.

Evaporation losses should be replaced using water.

Concentration losses should be replaced with Cleaner 505.

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ANALYSIS METHOD

Reagents

1. 1.0N Hydrochloric acid.
2. Methyl orange indicator

Method

1. Pipette 25.0 ml of working solution into a 250 ml Erlenmeyer flask.
2. Add approximately 50 ml deionized water and mix thoroughly.
3. Add 2-3 drops of Methyl orange indicator.
4. Titrate with 1.0N Hydrochloric acid from a yellow to a reddish end point.

Calculation

Cleaner 505 (g/L) = mls of 1.0N Hydrochloric acid X 3.268

STORAGE

Store in original containers above 40°F

SAFETY

CAUTION! Cleaner 505 concentrates and working solutions contain alkaline ingredients. Avoid contact with eyes, skin and clothing. Wear chemical handler's gloves, goggles and protective clothing when handling. Read and understand Material Safety Data Sheet before using this product.

PRODUCT GROUPS

The following products are referred to in this data sheet.

PRODUCT NAME	PRODUCT NUMBER
Cleaner 505	206001

NOTICE

The information and recommendations of PMD (UK), Ltd. and Automated Chemical Solutions, Inc., and its representatives, regarding this product are, to the best of our knowledge, true and accurate. We make no guarantee of results because the conditions of actual use are beyond our control. We assume no liability for damages or penalties resulting from the use of this product or following our recommendations. Our recommendations and suggestions for use of this product are not intended to grant license to operate under or infringe any patent.

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