

# WHEELIE

## Aqueous Degreaser

4204



### DESCRIPTION

**WHEELIE** is a concentrated liquid degreaser formulated for the removal oil and grease on aircraft metal components.

**WHEELIE** is designed for use in spray washers, immersion and agitated tanks or manual cleaning.

### APPLICATION



**WHEELIE** is recommended for all components and engine parts, landing gears, wheel hubs, bearings etc.

**WHEELIE** is suitable for carbon removal from galley ovens and surrounding.

### PRODUCT BENEFITS

- Powerful degreasing action
- Controlled foam to allow use in agitated tanks or spray wash machines
- Free rinsing
- Safe on steel, aluminium, titanium, magnesium and copper alloys
- Safe on most paints and plastics
- Non-flammable

### PHYSICAL PROPERTIES

Appearance .....	Liquid
Colour .....	Clear pale
Odour .....	Lemon
Specific Gravity .....	1.011 ± 0.01
pH (Neat) .....	10.9 ± 0.2
Solubility .....	Water soluble
Flammability.....	Non-flammable

## APPROVALS / CONFORMANCES

- AMS 1537A - *Cleaner, Alkaline (Hot Tank Type)*
- APR 1755B - *Effect of Cleaning Agents on Aircraft Engine Materials – Stock Loss Test Method (Cat. 10)*
- ASTM F945 - *Stress Corrosion of Titanium Alloys by Aircraft Maintenance Materials (Method A)*
- Pratt & Whitney SPMC 138
- Pratt & Whitney – *Determination of the effect of Chemical Cleaners on Non-Metallic Materials*
- Pratt & Whitney PWA 36604 (Appendix 4) Rev. 07/97 – *Hot Corrosion Testing of Standard Gas Turbine Engine Alloys*
- Goodrich
- Allied Signal
- Honeywell



## DIRECTION FOR USE

### Soak Tank:

Light to moderate soils: 10% to 25% water solution  
Moderate to heavy soils: 25% to 50% water solution

- Immerse parts in bath at 50-70°C for 10 to 30 minutes. For most applications 60°C for 15 minutes provides satisfactory results. Best results are obtained if some agitation is used.
- When cleaning is complete, remove parts and allow excess solution to drain back into the tank.
- Rinse thoroughly with a water spray or dip in an air agitated, overflowing clear water rinse tank

### Spray Washer:

- To charge washer, fill tank with a 10% to 20% A4-204 solution in water and heat to 50-70°C. A 10% solution is usually satisfactory.
- Spray on for 5 to 10 minutes.
- When clean, spray rinse with water or dip in an air agitated, overflowing, clear water rinse tank

### Solution Control (Field procedure):

- Maintain operating temperature. A drop in the temperature of the bath will adversely affect cleaning performance and produce more foam

- When performance appears to be unsatisfactory, add **WHEELIE** in 10% (by volume) increments.
- If performance fails to show improvement, dump and recharge the tank with fresh **WHEELIE**.
- **WHEELIE** solution concentrations can be determined by using the following method.

### Test Method for WHEELIE

**Equipment:** 10 ml Pipette  
200 ml Beaker  
pH meter  
Distilled water  
0.1 N Hydrochloric Acid

### **Method:**

- Take a 10 ml sample of the A4-204 Bath solution and place into the 200 ml beaker.
- Add 90 ml of distilled water.
- Titrate with 0.1 N Hydrochloric Acid to a pH of  $7.00 \pm 0.05$ .

% v/v of A-4204 =  $1.06 \times$  Number of mls of 0.1 N Hydrochloric Acid used.

### STORAGE & SAFETY

Two years, stored in closed original packaging in a cool and dry place. **NON-HAZARDOUS**. Avoid contact with eyes and skin. Wear safety glasses if splashing is likely to occur. Wear rubber gloves if prolonged skin contact is expected.

*For further information please refer to the Material Safety Data Sheet.*

### PACKAGING

Ref: A-4204-O2 ..... Pail 25L  
Ref: A-4204-U2 ..... Drum 205L

### WARRANTY

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