

# PMD (UK) LTD PROCESS DATA

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9003-06/02

ISSUE 3

PREV 2

## PROCIRC 9003 ALKALI CLEANER

### INTRODUCTION

Procirc 9003 Alkali Cleaner is a highly effective liquid cleaner which exhibits a powerful cleaning and degreasing action, removing finger-prints and general soils from copper.

Procirc 9003 Alkali Cleaner is suitable for spray applications.

### BENEFITS

Excellent cleaning.

Supplied as a liquid for ease of handling

Low foam, suitable for spray applications.

Economical to use.

### SOLUTION MAKE-UP

Procirc 9003 Alkali Cleaner

25 - 75 % v/v

Optimum 50 % v/v

### OPERATING DATA

Temperature

20 - 50 deg C

Time

30 seconds - 2 minutes

Agitation

Recommended

Extraction

Recommended

### EQUIPMENT

Tanks

Stainless Steel, Polypropylene, Polyethylene, Unplasticised PVC, Titanium.

Heaters

Teflon coated, PTFE, Stainless Steel, Titanium all with thermostatic control.

If in any doubt as to the compatibility of equipment contact PMD (UK) Limited Technical Department.

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### **INSTALLATION**

The equipment to be used for Procirc 9003 Alkali Cleaner should be cleaned and leached thoroughly before any product is added.

The final leach should be performed using a 1% w/v solution of sodium hydroxide and should be held in the tank for a minimum of 12 hours at working temperature.

If in any doubt as to the cleaning procedure contact PMD (UK) Limited Technical Department.

1. Fill the clean empty tank with the appropriate amount of water.
2. Slowly add the correct amount of Procirc 9003 Alkali Cleaner and mix thoroughly
3. Heat to operating temperature.

### **PROCESS SEQUENCE**

1. Clean in Procirc 9003 Alkali Cleaner.
2. Rinse.
3. Rinse.
4. Continue dependent upon application.

### **MAINTENANCE AND CONTROL**

The solution should be regularly analysed and replenished as necessary.

Evaporation losses should be replaced using water.

Concentration losses should be replaced with Procirc 9003 Alkali Cleaner.

### **ANALYSIS METHOD**

#### Procirc 9003 Alkali Cleaner Concentration

#### Reagents

1.0N Hydrochloric Acid (Standard Volumetric Solution).  
Methyl Red Indicator.

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## **ANALYSIS METHOD CONTINUED**

### Method

1. Pipette 10 ml of working solution into a 250 ml conical flask.
2. Add approximately 50 ml water and mix thoroughly.
3. Add 2 - 3 drops of methyl red indicator and mix thoroughly.
4. Titrate with 1.0N Hydrochloric Acid to a red end point.
5. Record titre = t mls.

### Calculation

$t \times 6.06 = \% \text{ v/v Procirc 9003 Alkali Cleaner.}$

### Replenishment

For every 1% drop in concentration, add 10ml/L of Procirc 9003 Alkali Cleaner.

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## **DISPOSAL**

Dispose of in accordance with local authority requirements.

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## **PRODUCT FAMILIES**

The following products or product families are referred to in this data sheet.

<u>Product Name</u>	<u>Product Number</u>
Procirc 9003 Alkali Cleaner	906003

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