

# PROCIRC 9025

## ACID CLEANER

### INTRODUCTION

Procirc 9025 Acid Cleaner is a highly concentrated spray acid cleaner which exhibits a powerful cleaning action, removing fingerprints, passivates, tarnish and general soils from copper.

### BENEFITS

Low foam detergent system.

Preferred product for high pressure spray equipment.

Passivation removed prior to photomech/oxide.

Free rinsing.

Supplied as a concentrate - economical to use.

### SOLUTION MAKE-UP

Procirc 9025 Acid Cleaner                      2-5% v/v with water.

### OPERATING DATA

Temperature	25 - 50°C.
Time	15 secs - 2 mins.
Extraction	Recommended.

### EQUIPMENT

Tanks                      Polypropylene, polyethylene, PVC, titanium, stainless steel.

Heaters                      Teflon coated, PTFE, stainless steel, titanium, thermostatic control.

## ISSUE 2

### **INSTALLATION**

It is essential that the equipment to be used for Procirc 9025 Acid Cleaner is cleaned and leached thoroughly before any product is added. Leach the equipment using a 5% solution of phosphoric acid at 40°C.

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

1. Add the required volume of water to the tank.
2. Add the required volume of Procirc 9025 Acid Cleaner.
3. Mix well.
4. Heat to operating temperature.

### **PROCESS SEQUENCE**

1. Clean in Procirc 9025 Acid 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 9025 Acid Cleaner.

### **ANALYSIS METHOD**

#### **PROCIRC 9025 ACID CLEANER CONCENTRATION**

##### **Reagents**

0.1N Sodium hydroxide (Standard Volumetric Reagent)  
Phenolphthalein indicator

## ISSUE 2

### Method

1. Pipette a 5ml sample of working solution into a 250ml flask.
2. Dilute with 50ml of de-ionised water and mix well.
3. Add 2 - 3 drops of phenolphthalein indicator and mix well.
4. Titrate to a pink end point using 0.1N sodium hydroxide.
5. Record titre = t mls.

### Calculation

$t \times 0.242 = \% \text{ v/v Procirc 9025 Acid Cleaner}$

### Additions

For every 0.1% drop in concentration, add 1ml/l of Procirc 9025 Acid 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 9025 Acid Cleaner	907012

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