

# PROCIRC 9024

## ACID CLEANER

### INTRODUCTION

Procirc 9024 Acid Cleaner is a concentrated acid cleaner which exhibits a powerful cleaning and degreasing action, removing fingerprints, grease, passivates, tarnish and general soils from copper.

Procirc 9024 can be used in spray or immersion applications.

### BENEFITS

High detergency for excellent cleaning.

Preferred product for high spray pressure equipment.

Passivation removed prior to oxide/photomech.

Free rinsing.

Supplied as a concentrate - economical to use.

### SOLUTION MAKE-UP

Procirc 9024 Acid Cleaner                      5 - 20% v/v with water.

### OPERATING DATA

Temperature	30 - 50 deg C.
Time	30 secs - 2 mins.
Agitation	Recommended in dip.
Extraction	Recommended.
Foam	The solution is designed to run with a slight foam blanket.

## ISSUE 2

### EQUIPMENT

Tanks	Polypropylene, polyethylene, PVC, titanium, stainless steel.
Heaters	Teflon coated, PTFE, stainless steel, titanium, thermostatic control.

### INSTALLATION

It is essential that the equipment to be used for Procirc 9024 Acid Cleaner is cleaned and leached thoroughly before any product is added. Leach the equipment using a 5% solution of phosphoric acid at 40 deg 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 9024 Acid Cleaner.
3. Mix well.
4. Heat to operating temperature.

### PROCESS SEQUENCE

1. Clean in Procirc 9024 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 9024 Acid Cleaner.

### ANALYSIS METHOD

#### PROCIRC 9024 ACID CLEANER CONCENTRATION

##### Reagents

0.1N Sodium hydroxide (Standard Volumetric Reagent)  
Phenolphthalein indicator.

### Method

1. Pipette a 20ml 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

$t \times 0.242 = \% \text{ v/v Procirc 9024 Acid Cleaner}$

### Additions

For every 1% drop in concentration, add 10ml/l of Procirc 9024 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 9024 Acid Cleaner	907011

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