

PMD (UK) LTD PROCESS DATA

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MFS1302-01/03
ISSUE 1
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MFS 1302 **COPPER CLEANER**

INTRODUCTION

MFS 1302 Copper Cleaner is a concentrated acid cleaner which, when diluted with water, exhibits a powerful cleaning action removing passivates, oxides, finger prints and general soils from copper.

BENEFITS

Passivation removal before oxide processing.

Free rinsing.

Concentrate - economical.

SOLUTION MAKE-UP

MFS 1302 Copper Cleaner

20% v/v with water.

OPERATING DATA

Temperature

40-50°C

Time

3-5 mins

Agitation

Not essential

Extraction

Recommended

EQUIPMENT

Tanks

Polypropylene, Polyethylene, Unplasticised PVC.

Heaters

Teflon coated or PTFE.

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

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INSTALLATION

It is essential that the tanks to be used for MFS 1302 Copper Cleaner are cleaned and leached thoroughly before any product is added.

The final leach should be performed using a 10% v/v solution of Hydrochloric Acid (36%) and should be held in the tank for a minimum of 12 hours at approximately 40°C.

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. Add the MFS 1302 Copper Cleaner and mix thoroughly.
3. Heat to operating temperature.

PROCESS SEQUENCE

1. Clean in MFS 1302 Copper 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 MFS 1302 Copper Cleaner.

ANALYSIS METHODS

MFS 1302 Copper Cleaner concentration

Reagents

0.1N Sodium Hydroxide solution. (Standard Volumetric Solution)
Methyl Red Indicator.

Method

1. Pipette 5 ml of working solution into a 250 ml conical flask.
2. Add approximately 100 mls water and mix.
3. Add 6 drops of methyl red indicator.
4. Titrate to a yellow end point with 0.1N sodium hydroxide.
5. Record titre = t mls.

Calculation

$t \times 1.32 = \% \text{ concentration.}$

Replenishment

For every 1% drop in concentration, add 10 mls/l MFS 1302 Copper Cleaner to the working solution.

DISPOSAL

Dispose of in accordance with local authority requirements.

PRODUCT FAMILIES

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

<u>Product Name</u>	<u>Product Number</u>
MFS 1302 Copper Cleaner	907030

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