

PMD (UK) LTD PROCESS DATA

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MFS1312-01/03
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MFS 1312 **COPPER ETCH/CLEANER**

INTRODUCTION

MFS 1312 Copper Etch/Cleaner is a copper cleaning solution used as a first step in producing a clean, micro-etched copper surface. It will clean, deoxidise, remove light oils and micro-etch bare copper P.C. boards, leaving a clean copper surface.

MFS 1312 Copper Etch/Cleaner is ideal for use prior to dry film lamination and hot air levelling.

BENEFITS

Economical micro-etch with ideal surface roughness.

Simple maintenance for controlled performance.

Rinses easily and completely for a truly clean surface.

Non foaming.

May be used in immersion or spray application.

SOLUTION MAKE-UP

MFS 1308 Copper Etch/Cleaner

20-100% v/v with water

OPERATING DATA

Concentration	20-100%
Temperature	25-50°C
Time	1-3 mins
Etch rate	0.25-0.75µm/min
Extraction	Recommended

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EQUIPMENT

Tanks	Polypropylene or polyethylene.
Heaters	Teflon, PTFE with thermostatic control.

INSTALLATION

It is essential that tanks to be used for MFS 1312 Copper Etch/Cleaner are cleaned and leached thoroughly before any product is added

Contact PMD (UK) Limited Technical Department for appropriate procedure.

1. Fill tank with appropriate amount of water.
2. Add the required volume of MFS 1312 Copper Etch/Cleaner.
3. Make-up to the operating volume with water.
4. Heat to operating temperature.

PROCESS SEQUENCE

1. MFS 1312 Copper Etch/Cleaner.
2. Rinse.
3. Rinse.
4. Continue depending on process.

MAINTENANCE AND CONTROL

Replace drag out losses with fresh MFS 1312 Copper Etch/Cleaner at the relevant concentration.

Discard solution when etch rate becomes unacceptable.

DISPOSAL

Dispose of in accordance with Local Authority requirements.

PRODUCT FAMILIES

The following products are referred to in this Data Sheet.

<u>Product Name</u>	<u>Product Number</u>
MFS 1312 Copper Etch/Cleaner	917031

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