



PLATINUM P4

Platinum plating solution

INTRODUCTION

Platinum P4 plating solution is ideal for the flash plating of a wide range of components. The process produces a bright platinum finish and is easy to control.

SOLUTION MAKE-UP

Platinum P4 Supplied ready to use

It is essential that the tanks to be used for Platinum P4 are thoroughly cleaned and leached before any chemistry is introduced. If in any doubt as to the cleaning procedure please contact PMD Chemicals Technical Department.

1. Add Platinum P4 to tank
2. Heat to operating temperature

OPERATING DATA

	Optimum	Range
Platinum	4g/L	2 - 20g/L
pH	1.0	0.5 - 1.5
Temperature	60°C	25 – 70°C
Time	60 sec	30 – 90 sec
Current density	3 asd	0.5 – 10 asd
Plating rate	0.21µm/min at 3 asd	
Voltage	2 – 4	3
Anode/cathode ratio	2:1 – 5:1	3:1
Agitation	Mild work or solution movement	
Extraction	Recommended	

EQUIPMENT

Tanks	Polypropylene, PVC. Smaller volumes glass
Heaters	PTFE or external
Anode	Platinised titanium

DEPOSIT DATA

Purity %	99.97
Hardness (Hv 0.01)	400
Density (g/cm ³)	21.4
Thickness (µm)	0.02 – 0.20
Appearance	Glossy
Colour	White

PROCESS SEQUENCE

Typical process:

1. Soak clean. Cleaner BOS
2. Electroclean. Alkaline Cleaner LF
3. Rinse
4. Acid dip. 5% sulphuric acid
5. Rinse
6. DI water rinse
7. Platinum P4
8. Drag out rinse
9. DI water rinse
10. Dry

MAINTENANCE AND CONTROL

The solution is replaced when platinum metal is exhausted. Approximately 15mg Platinum are plated every 1 Amin.

DISPOSAL

Dispose of in accordance with local authority requirements

PRODUCT FAMILIES

The following products are referred to in this data sheet.

PRODUCT NAME	PRODUCT NUMBER
Platinum P4	187001

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