

ABC 889B Catalyst Part B

500-272 & 500-272-1

ABC 889B is a new generation low acid colloidal Palladium bath used in the direct plating process. **ABC 889B** is used in order to create a dense uniformed distribution of activated-site necessary to achieve the highest conductivity and consistent perfect coverage at the end of the complete **ABC** sequence.

BATH MAKE-UP FOR 5 LITRE BATH

1. PREDIP ABC889A	4.25 Litres
2. Deionized water	500 ml
2. ABC 889B	250 ml
3. Warm up to working temperature with oscillating frame running and blank board in solution	
IMPORTANT to use heater with low surface effect, max. 1 w/cm ² .	

PROCESS PARAMETERS

Temperature	42 °C. Do not allow temperature to exceed 50°C.
Treatment time	7 minutes
Agitation	Important with both a slow solution movement and to move the panels

EQUIPMENT REQUIRED

Tanks	PP and PVC tanks are recommended
Hanger	Stainless steel acid proof (Steel 316).
Heaters	Teflon or quarts. Low surface effect, max 1 w/cm ² .
Ventilation	Recommended
Solution movement	IMPORTANT during warming up to not over heat the solution.

BATH MAINTENANCE

Add 25 ml of **ABC 889B** for each 2.5 m².

A relative old bath of **ABC 889B** should be analysed periodically to ensure that there is less than 2000 ppm copper in the bath. If copper is present in excess of 2000 ppm the entire bath should be replaced.

OPERATING CONDITION

	Range	Optimal
ABC 889B	3,5-5 %	5%
Pd	210-300 ppm	300 ppm
Sn ²⁺	10-18 g/l	13 g/l
HCl	13-18 g/l	14 g/l

ANALYSIS

ABC 889B

The concentration of ABC 889B can be determined based on the absorbance measured with a colorimeter. An indicated analysis method can be provided from MEGA ELECTRONICS based on the instrument you have.

Acidity

1. Pipette 1 ml stirred bath in a beaker.
2. Dilute to 100 ml with de ionised water
3. Add few drops of Methyl red indicator.
4. Titrate with 0,1 M Sodium hydroxide to a yellow endpoint.

Calculation

ml 0,1 M Sodium hydroxide x 3,65 = g/l HCl

Tin

1. Measure 200 ml of DI Water to a beaker.
2. Add 20 ml concentrated hydrochloric acid.
3. Pipette 5 ml stirred bath to the solution.
4. Add 10-11 drops of starch solution.
5. Titrate with 0.1N Iodine solution to dark endpoint.

Calculation

ml 0.1N Iodine solution x 1,187 = g/l Sn²⁺

WASTE DISPOSAL

Waste is to be disposed and/or treated according to local regulations.

For more information see MSDS or contact **MEGA ELECTRONICS LTD.**,

SAFETY/PRECAUTIONS

ABC 889A contains hydrochloric acid and could cause burns to skin and eyes.

Avoid contact with eyes and skin. Wear protective gloves, goggles. If swallowed, give immediately something to drink. Do not induce vomiting. Seek medical advice. In case of skin- or eye contact, rinse immediately with water. In case of eye contact seek medical advice.



PHYSICAL DATA

ABC 889B is a black solution with a sweet pleasant smell.

STORAGE

Store in room temperature and at a dark place.

Release Date : 0293 - Updated 10/12

DISCLAIMER

The information relates to the specific material. It may not be valid for such materials used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.