

# 500-270 & 500-270-1 CLEANER/CONDITIONER ABC 189

**Cleaner-Conditioner ABC 189** is an alkaline cleaner-conditioner used in the direct plating process to thoroughly prepare and condition any substrate used in the PWB manufacturing.

**Cleaner-Conditioner ABC 189** is specially designed for treat desmeared MLB's where glass fibres are well exposed. It contains conditioning agents which activate glass fibers and dielectric, allowing for a reliable absorption of the catalyst.

**Cleaner-Conditioner ABC 189** can be easily removed from the copper surface in the following rinses, making the process selective.

### BATH MAKE-UP FOR 5 LITRE BATH

1. De-mineralised water	4.85 Lt
2. <b>CLEANER/CONDITIONER ABC 189</b>	150ml
3. Warm up to working temperature.	

**IMPORTANT** to shake the **CLEANER/CONDITIONER ABC 189** drum gently before use.

### PROCESS PARAMETERS

Temperature	65°C
Treatment time	7 minutes
Agitation	Important with board movement. Solution movement is recommended.
Capacity	1 litre ready made solution treats 12.5 m <sup>2</sup> board A 5 Litre bath shall be replaced at 12.5 m <sup>2</sup> .

### EQUIPMENT REQUIRED

Tanks	Stainless steel or PP tanks are recommended
Hanger	Stainless steel acid proof (Steel 316).
Heaters	Teflon or stainless steel
Ventilation	Recommended
Solution movement	Recommended
Rinse	Optimal to have a warm static rinse followed by a dual cascade rinses.

### **BATH MAINTENANCE**

To compensate drag out add 15 ml **CLEANER/CONDITIONER ABC 189** for each 2.5 m<sup>2</sup>.  
Compensate for evaporation with additions of DI water.

### **ANALYSIS**

**CLEANER/CONDITIONER ABC 189** is maintained by replenishment per m<sup>2</sup>. In this case analysis are not needed for this type product.

### **WASTE DISPOSAL**

Waste is to be disposed and/or treated according to local regulations.  
For more information see MSDS or contact **Mega Electronics Limited**.

### **PHYSICAL DATA**

**CLEANER/CONDITIONER ABC 189** is an amber solution with a sweet musty smell.

### **STORAGE**

Store in original package in room temperature.  
Close the cap tight after use.

### **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 representating 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.