



BLT Circuit Services Ltd  
Brome Ind. Est. Brome, Eye,  
Suffolk, IP23 7HN, England  
Tel: 01379 870870  
Fax: 01379 870970  
e-mail:sales@blt.keme.co.uk  
www.bltcircuitservices.co.uk

## Antitarnish ANT-39

### Description:

**ANT-39** is a water soluble organic compound that can prevent silver from tarnishing, which would affect the brilliant appearance and bonding ability. It contains no solvents or chromate.

### Characteristics:

- 1) No solvent or chromate.
- 2) No surfactant making waste water treatment easier
- 3) Good solderability and conductivity.

### For 1 litre you will require:

<b>Antitarnish ANT-39</b>	200ml
<b>De-ionised Water</b>	up to 1 litre
(pH is lowered by <b>ANT-39 Reducer</b> )	

### Working Data:

	<u>BEST</u>	<u>Min/Max</u>
Bath Strength	100%	75- 125%
<b>Antitarnish ANT-39</b>	200ml/1	170-230ml/1
pH	5.5	5-6
Temperature	40°C	20-50°C
Time	3 min	2-5 min
Agitation	Mechanical movement.	
Heating	Quartz, Titanium, or Teflon heater.	



BLT Circuit Services Ltd  
Brome Ind. Est. Brome, Eye,  
Suffolk, IP23 7HN, England  
Tel: 01379 870870  
Fax: 01379 870970  
e-mail:sales@blt.keme.co.uk  
www.bltcircuitservices.co.uk

### **Bath Replenishing:**

1 litre of **Antitarnish ANT-39** working solution can treat 70-100dm<sup>2</sup> surface area. For 1% bath strength increase, 2ml/1 **Antitarnish ANT-39** must be added.

### **Analysis method for Antitarnish ANT-39:**

By UV spectrophotometer;

- 1) At least 10 minute warm up for the UV machine before analysis.
- 2) Set the wave length at 194nm. Quartz curvette of path length 100mm should be used.  
Another curvette should be filled with D.I water as a control.
- 3) Accurately take 1ml sample of working solution to 100ml volu metric flask and dilute with D.I water up to 100ml volume. Then take the reading for the absorbance of the sample.

Calculation;

$$\text{Bath strength (\%)} = \frac{\text{Absorbance value of sample}}{\text{Absorbance value of standard}} \times 100\% \times f$$

f = UV constant according to different type of machine.

Absorbance value of standard = 1.5132