

## UNISTAR COPPER SALT

UNISTAR COPPER SALT is an alkaline cyanide copper process which gives a smooth, bright and ductile deposit. The process can be operated over a wide current density range and can be used in both vat and barrel operations.

UNISTAR COPPER SALT copper process can be used for plating on steel, zinc base die – castings and aluminium parts. The deposit produced is smooth and ductile thus making it easy to plate subsequent acid copper or nickel on it.

### BATH COMPOSITION

UNISTAR COPPER SALT : 100 - 150 g/ ltr.

### OPERATION CONDITIONS

Current density :	2- 3 A/dm <sup>2</sup>
Temperature :	45° - 50° C
Agitation : (Optional)	Cathode rod movement
Filtration :	Required

### PREPARATION

Fill the tank with 1/3rd full of water and heat to 50°C. Add UNISTAR COPPER SALT slowly with stirring to dissolve the salt completely. Make up the level with water. Bring the solution to the working temperature. Solution is now ready for use.

## EQUIPMENT

PVC lined MS tanks or unlined steel tanks may be used. It is advisable to use lined tanks.

**HEATING:** Stainless steel immersion heaters can be used.

## FILTERING EQUIPMENT :

In order to get the best results filtration is recommended. The filter chamber should be constructed with plain steel, pump materials may be cast steel or stainless steel. PVC pads are recommended.

## MAINTENANCE

As free cyanide varies frequently, everyday salt addition is recommended. The solution is to be maintained in following range.

Copper content : 14 – 20 g/ltr

Free cyanide : 4 – 6 g/ltr

## NOTE

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