Schloetter
Plating Technology

Product Guide: Pretreatment for copper & Brass (Polished)

Liquid

Ultrasonic Cleaning
Slotoclean AK180

Make-up quantity for 100 litres

Slotoclean AK181	4 lts
Slotoclean US	0.6 ltr
Deionised Water	
Effluent:	Lime slurry & neutralisation
Temp :	> 80 °C
pH	8.2 – 8.7
Time :	2 - 5 min

Film Remover
Slotoclean EL210

Make-up quantity for 100 litres

Slotoclean EL211	3 lts
Mains water possible	
Effluent :	Neutralisation
Temp :	50 - 60 °C
Time :	1 - 2 min

Electrolytic Degreasing
Slotoclean EL 210

Make-up quantity for 100 litres

Slotoclean EL 211	5 lts
Mains Water possible	
Effluent :	neutralisation

Cathodic Polarity

Temp :	20 - 40 °C
Time :	1 - 2 min
Current Density :	4 - 6 A/dm²

Anodic Polarity

Temp :	40 - 50 °C
Time :	< 0.5 min
Current Density :	1 - 2 A/dm²

Cleaning With Ultrasound

(Acoustic power 6 - 10 watts/litre)
With higher bath loads and sensitive ware, two successive cleaning stages are recommended.

Separators for the removal of contamination will extend useful life. Gravity oil separators are unsuitable.

Change from solid to liquid is possible.

Cathodic or anodic or combined is possible.
In principle polished brass and copper parts are only degreased anodically. The anodic phase promotes the adhesion of the subsequent electroplated deposit by etching the surface of the base material. It is however necessary to ensure that the operating parameters are maintained to avoid attack of the substrate.

Solid

Ultrasonic Cleaning
Slotoclean AK 90

Make-up quantity for 100 litres

Slotoclean AK91	3 kg
Deionised water	
Effluent :	Lime slurry & Neutralisation
Temp :	> 60 °C
pH	8.2 - 8.7
Time :	2 - 10 min

Electrolytic Degreasing
Slotoclean EL130

Make-up quantity for 100 litres

Slotoclean EL131	5 kg
Mains water possible	
Effluent :	Neutralisation
Temp :	50 - 60 °C
Time :	1 - 2 min

Electrolytic Degreasing
Slotoclean EL 130

Make-up quantity for 100 litres

Slotoclean EL 131	5 kg
Mains Water possible	
Effluent :	neutralisation

Cathodic Polarity

Temp :	20 - 40 °C
Time :	1 - 2 min
Current Density :	4 - 6 A/dm²

Anodic Polarity

Temp :	40 - 50 °C
Time :	< 0.5 min
Current Density :	1 - 2 A/dm²

Activation
Activator S2

Make-up quantity for 100 litres

Activator Salt S2	4 kg
Mains Water where possible	
Temp :	Room Temp
Time :	½ - 1½ min
Effluent :	Lime slurry & neutralisation

Electroplating

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