

Product Guide: Pretreatment for copper & Brass (Oil, Oxidized, Soldered)

Liquid

Solid

Immersion Degreasing

Slotoclean AK180

Make-up quantity for 100 litres

Slotoclean AK181 4 lts
 Slotoclean VF100 1 ltr
 Or Slotoclean VF200 0.6 ltr
 Deionised Water

Effluent: Lime slurry & neutralisation
 Temp : > 60 °C
 pH : 8.2 - 8.7
 Time : 2 - 20 min

Immersion Degreasing

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

When using oil separators, the degreasing additive **Slotoclean VF200** must be used.

Pickling

Cu – Slotetch 584

Main use for copper
 Temp : 20 - 25 °C

50 % HCl + 40 ml/l BEF 30

Or 10 – 20 % w/v H₂SO₄ + 40 ml/l BEF 30
 Or mixed acids e.g. hydrochloric + sulphuric
 Use with brass or copper materials.
 Temp: R.T – 50 °C

Electrolytic Degreasing

Slotoclean EL130

Make-up quantity for 100 litres

Slotoclean EL131 5 kg
 Mains water where possible

Effluent : Neutralisation

Cathodic Polarity

Temp : 20 - 40 °C
 Time : 1 - 2 min
 Time Barrel : 3 min
 Current Density : 4 - 6 A/dm²

Anodic Polarity

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

Electrolytic Degreasing

Slotoclean EL210

Make-up quantity for 100 litres

Slotoclean EL211 5 lts
 Mains water where possible

Effluent : Neutralisation

Cathodic Polarity

Temp : 20 - 40 °C
 Time : 1 - 2 min
 Time Barrel : 3 min
 Current Density : 4 - 6 A/dm²

Anodic Polarity

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

For cathode Degreasing

Combined cathodic/anodic degreasing (separate tanks) has proved itself worthwhile. The anodic phase provides surface activation, which improves the bonding strength of the following steps.

Mainly for anodic treatment of oxide surfaces

Slotoclean EL DCG F

Make-up quantity for 100 litres

Slotoclean EL DCG F 8 lts
 Mains Water where possible

Effluent : Lime slurry & neutralisation

Anodic Polarity

Temp : 40 - 50 °C
 Time : 1 - 3 min
 Current Density : 1 - 5 A/dm²

Slotoclean EL DCG

Make-up quantity for 100 litres

Slotoclean EL DCG 8 kg
 Mains Water where possible

Effluent : Lime slurry & neutralisation

Anodic Polarity

Temp : 40 - 50 °C
 Time : 1 - 3 min
 Current Density : 1 - 5 A/dm²

Activation

Activator S2

Make-up quantity for 100 litres

Activator Salt S2 4 kg
 Mains Water where possible

Effluent : Lime slurry & neutralisation

Temp : Room Temp
 Time : ½ - 1½ min

Electroplating

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