

# Chemistry that works for you.

tinGlo®

## PRODUCT LIST

### Tin Plating Chemicals

► **'tinGlo' & 'tinMat'** : Acid sulphate bright and satin matte tin plating processes respectively. Ideal for plating PCB's; electrical / electronic components; continuous copper & steel wires, industrial and decorative item. Deposits are smooth, fine-grained and highly solderable.

► **'tinNeutralizer'** : An alkaline post-plating wash for acid tin plating components, particularly bright acid tin to neutralize traces of tin plating solution and excess of occluded organics. Prolongs service life of tin plated components.

► **'tinAntox'** : A unique post-treatment for protecting tin and tin alloy plated components from discolouring / deteriorating during storage and / or exposing to high temperatures of 100°C-250°C during further manufacturing steps, and is devoid of toxic hexavalent chromium.

► **'tinKlear'** : Acid tin plating bath clarifier. It is a water solution of specially selected blend of powerful flocculating agents that will cause the suspended solids and stannic sludge to cling together and settle to the bottom, rendering the tin bath crystal clear. Avoids the need of filtration units to a great extent.

► **'tinStrip – NF'** : Fast acting acidic hydrogen peroxide based tin / tin alloy stripper from brass, copper and copper alloy base metals. It is a speedy, non-fuming, nitric / chromic free stripping process which does not substantially attack the base metal.

► **'tinStrip – Fe'** : Fast acting hot alkaline tin / tin alloy stripper from iron and steel base metals. Simple to operate and maintain and does not attack the base.

### Pre-treatment Chemicals

► **'KleenSol – ST' & 'KleenSol – NF'** : Room temperature alkaline degreaser / cleaner for steel, non-ferrous metal and plastics. **'KleenSol'** is highly efficient & cost effective. It is ideally suited for aqueous ultrasonic cleaning as well.

► **'PikSol'** : non-fuming acid pickling / derusting and surface activation additive for acid baths for pre-treatment of metals. Ideal and safe for use on ferrous and non-ferrous articles.

► **'KleenSol-PCB'** : a novel, moderate temperature operating, mildly acidic degreaser / cleaner for cleaning, de-oxidising and activating copper surfaces prior to further plating and finishing treatments. Particularly designed for pre-treating PCB's for acid tin plating as it does not attack the photo-resist.

### Copper Plating Chemicals

► **'CuMatt Starter' : 'CuMatt'** is a high throw, fine grained, smooth, lustrous, ductile acid sulfate copper plating process for rack and barrel plating. **'CuMatt'** is used in Printed Circuit Board, as an undercoat on brass components prior to **'tinGlo'** plating, plus many other applications.

### Chemical Polishing, Bright Dipping & Descaling Chemicals for Brass, Copper & Steel

► **'DiPol - B98, C99 & Fe'** : Chemical polishing bright dips for brass, copper and mild steel base metals respectively. Processes are non-fuming, nitric / chromic / hydrochloric / cyanide free and user friendly, imparting a highly brilliant, lustrous and levelled finish, based on hydrogen peroxide.

► **'DiScale - BC99'** : A mildly acidic hydrogen peroxide based nitric / chromic / cyanide free fast acting de-scaling process for brass, copper and copper alloy base metals. It rapidly dissolves heavy oxides and black scales formed due to annealing, producing a clean matte surface ready for further finishing operation like chemical bright dipping / polishing, electroplating, etc.

► **'DiPol - AC'** : An acidic de-oxidizing / activation process for brass, copper and copper alloy base metals prior to further finishing steps like chemical polishing, electroplating, colouring, patinating and lacquering operations.

► **'DiPol - AT & ATF'** : Anti-tarnish post-finishing dips for bright brass and copper metals. Processes are chromic & cyanide free imparting moderate term protection indoors to chemically / mechanically brightened or electroplated brass and copper surfaces.

► **'DiRinz'** : Post-finishing rinse aid which imparts a thin / temporary dry-to-touch protective film, rapid de-watering, in-storage/transit corrosion resistance and tarnish resistance.

### Blackening Chemicals for Mild Steel / Iron Castings

► **'DiPrep - ST'** : Pre-treatment chemical for room temperature blackening of iron / steel. It is an acidic aqueous blend formulated to effectively activate / condition ferrous iron castings, leaded steels and difficult to blacken steels rendering the surface free from oxides and smut prior to **'KolBlak - F91'** process.

► **'KolBlak - F91'** : Fast acting room temperature blackening process for ferrous articles, iron castings, high speed steels etc. Energy saving, cost effective, user-friendly and simple to operate unlike the conventional hot caustic-nitrate blackening process.

► **'OISeal - DW'** : De-watering rust preventing sealant fluid. Effectively used for sealing and temporary rust prevention of blackened or phosphated iron and steel articles, and goods in transit.

### Lacquers & Coatings

► **'AquaRez - AR & BK'** : Water-based clear acrylic lacquers. Air drying **'AR'** and baking stoving **'BK'** types impart clear, transparent coatings having corrosion resistance and anti-tarnish properties. Used on polished brass / copper articles; gold / silver plating's and zinc plated items. Also used as a sealant for blackened or phosphated iron & steel products.



# Daulat International

Electroplating & Metal Finishing Chemicals

Unit No. 167, A-Z Industrial Estate, Ganpatrao Kadam Marg, Lower Parel (West), Mumbai - 400 013. INDIA.

Tel : +91 22 49647471 / 43470167 / 24962652 | Email : [info@daulatinternational.com](mailto:info@daulatinternational.com) / [daulatinternational@gmail.com](mailto:daulatinternational@gmail.com)  
Website : [www.daulatinternational.com](http://www.daulatinternational.com)