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Products | Electroplating

Electrolytes for Electroplating

Our customers all over the world appreciate and benefit from the excellent performance of our electroplating solutions which generate high quality metal deposits even under severe working conditions. The electrolytes are suitable for both barrel and rack plating.

- [CHELUX® - cyanide copper electrolyte](#)
- [RUBIN - bright copper process](#)
- [ORION® and SIRIUS - bright nickel electrolyte](#)
- [MERKUR - satin nickel process](#)
- [SAPHIR® - bright and hard chromium process](#)
- [PROMAT - cyanide zinc process](#)
- [TOPAS - alkaline non-cyanide zinc process](#)
- [AZUR - acidic zinc process](#)
- [KORONA® - acidic bright tin process](#)
- [ACHAT - cyanide brass electrolyte](#)
- [TURMALIN - alkaline, cyanidefree Copper electrolyte](#)

CHELUX® - cyanide copper electrolyte



- Dense and adherent deposits even for thin copper layers
- Fine-crystalline ductile copper coatings
- Excellent throwing and covering power which is essential for copper plating of zinc die castings

RUBIN - bright copper process

- Ductile and tension free deposits
- Excellent bright throwing power, nodulisation is minimized
- Unsurpassed levelling action

- Wide temperature range (18 - 35° C)
- Only one brightener is needed for the current production

ORION® and SIRIUS - bright nickel electrolyte

- Wide current density range
- Remarkably ductile and brilliant deposits which are easy to chromium plate
- Excellent levelling power (up to 70 %); polishing and buffing operations can be reduced considerably
- Special additional agents for specific demands on request
- In combination with our semi-bright nickel electrolyte **Pre-SIRIUS** creates a first-class **duplex nickel process** with a potential difference of 80 - 110 mV between the nickel layers

MERKUR - satin nickel process

- Uniform semi-bright deposits
- Dazzle-free nickel deposits with good finger print resistance
- Excellent properties for further chromium plating

SAPHIR® - bright and hard chromium process

- Self regulating electrolyte without solid deposit (catalyst)
- Excellent bright throwing and covering power
- High current efficiency
- Current densities up to 100 A/dm² (hard chromium)
- Bright chromium deposits at a wide range of chromic acid concentration (175 - 300 g/l CrO₃)
- Uniform deep black and abrasion resistant chromium deposits can be achieved by using type "TS" which has the same characteristics as other **SAPHIR®** electrolytes

PROMAT - cyanide zinc process

- **VARIO** brighteners produce high lustre zinc deposits over a wide range of current density
- Excellent bright throwing power and uniform coatings
- **VARIO** additives work in zinc baths with low, medium or high cyanide concentrations
- Brilliant deposits also without rod movement or bath agitation
- The version **VARIO 40** is supplied as concentrate

TOPAS - alkaline non-cyanide zinc process

- Tension-free deposits
- Excellent throwing power
- High current densities and excellent layer distribution
- Easy maintenance with zinc regeneration tank and steel anodes

AZUR - acidic zink process

- Non-combustible additives which do not contain any alkylphenole ethoxylates. They can be diluted with water as required
- The electrolyte runs at 18 - 60 °C and does not become turbid
- High brilliant and ductile deposits at high current densities
- Very little foaming when used with air agitation

KORONA® - acidic bright tin process



- Deposits are resistant against finger-prints, tarnishing and easy to solder
- Wide current densities and temperature range with uniformly layered deposits
- No yellowish deposits, not even during breaks in production

ACHAT - cyanide brass electrolyte

- The colour of deposits can be varied from reddish to light yellow by the addition of a special additive which stabilises the colour
- With exposure times up to 5 minutes, the brilliance of pre-plated nickel layers is maintained. Deposits over 7µm can be coloured antic, black or something similar using our **PROSEAL Color BM**

TURMALIN - alkaline, cyanidefree Copper electrolyte

- Dense, adherent and semibright copper layers
- substitutes cyanide copper plating solutions
- Excellent throwing power

Give your electroplating racks a protective coating with our **KIESOplast**.

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