



META PRO 
W E P R O T E C T

www.MetaPro.co.com

About Us

MetaPro Group, a leading Arab-German partnership company based in the Middle East and North Africa. With branches in both the United Arab Emirates and Egypt, we specialize in the sale of chemicals for electroplating, IPC, HDG, and metal pre-treatment.

We strive to meet the evolving needs of our clients and provide them with innovative solutions that drive their success. Our dedicated team of professionals is passionate about delivering exceptional customer service.

Vision

We aspire to become a trusted name known for our outstanding product quality, technical expertise, and customer-centric approach. By leveraging our partnerships with reputable European brands and staying at the forefront of industry advancements, we aim to contribute to the growth and success of our customers' businesses.

Partners



NABU-Stulln leads on advanced metal pretreatment technology. Their strong dedication to quality and sustainability distinguishes them as a trusted industry frontrunner. Continual research and development enable them to offer customized solutions and deliver exceptional results to their clientele.



TECNOCHIMICA

TECNOCHIMICA excels in electroplating technology, for industries like automotive, electronics, and aerospace. Their specialized chemicals optimize processes, ensuring top-notch surface finishes and corrosion protection. Committed to innovation and sustainability, Tecnochimica continuously advances its technologies to meet evolving needs.



ALUMINIUM ANODIZING TECHNOLOGY
Chemicals, Processes, Equipment

Since 1967 **METACHEM** have been producing specialized chemicals, planning and supplying anodizing lines and technical components for the surface treatment of aluminum.

METACHEM offer you products of highest quality, expertise and high-performance service.

Partners



CONDOROIL was founded by Franco Zavattoni in 1972 based on principals of Research & Development of innovative products, combined with customer service, and addressing customer needs in competition with multi-national companies.

Today the company has more than 3.000 products, 16 awarded and pending patents, and an innovative range of Recovery, Regeneration and Wastes Minimization Technologies as well as the Specialty Chemicals.



Nicem is an Italian company that since 1970 has been designing and manufacturing machines, plants and products for different fields: Spin casting, Lost-wax micro casting, Silicone and organic rubbers for spin casting and micro casting, Enamelling, Vibro-finishing, Rubber-laboratory presses, Professional Catering Furnaces for abrasive discs and Industrial washing machines.

Nicem focus is on meeting their customers' specific needs, which drives them to continuously improve themselves. In fact, many of Nicem production is custom-made for their clients.

I. Aluminum

Degreasing:

Nabuclean 52

- Used for removing grinding and polishing paste
- Oils are separated on the bath surface and are easy to remove.

Intens Series

- Boosts the cleaning performance by removing even the hardest of oils and greases.

Etching:

Acid-Etch:

Nabudur 160 E

- Used for Etching and Etching/Degreasing in spray applications.
- Contains oxidizing components.

Nabudur 158/E

- Possible techniques are manually spraying, Deep-coating, and wiping.
- Suitable for brightening Aluminum.

Alkaline-Etch:

Naburex 107 S

- Pickling system for Aluminium alloys and Galvanized steel.
- The length of the bath life is above average.

Passivation:

Chrome-Free:

Nabutan 810

- No rinse surface treatment product.
- Based on Titanium-Polymer complexes.
- Qualicoat approval (No. A-106).



II. Steel

Degreasing:

Grisolex 36

- Powdery Borate-free.
- Oils are separated on the bath surface and are easy to remove.
- Used in immersion plants.



Passivation:

Chrome-Free:

Nabutan 402

- Chromium and Phosphate free.
- For spraying plants.
- No rinse process.

Trivalent Chrome:

Nabural 34

- Multi-metal passivation process.
- Based on Chromium (III).



I. Cleaners

Tecno Soap US:

- Excellent Degreasing.
- No Oxidation or opalescence on the treated metal.

CH-50 S:

- Can be used as both chemical degreasing and electrolytic degreasing.

Furthermore:

- The constant use of our R&D laboratories has been able to guarantee formulations totally in line with the recommendations for the protection of the environment and workers.
- All our processes are free from solvents, phenolic derivatives and strong complexing agents which could cause purification problems.



II. Functional Plating

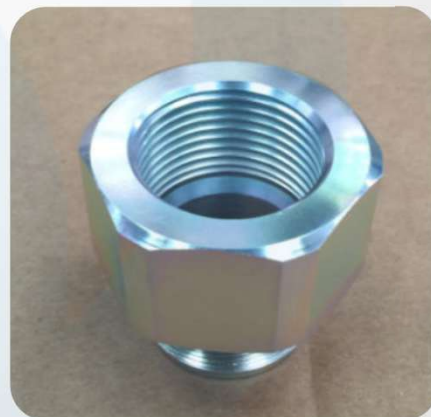
CROMOZINC

- Acid Zinc Process Uses two additives that can be mixed to obtain a single feed product.
- The cloudy point of the working solution is above 75°C.

Alkaline Cyanide & Cyanide free Zinc Plating.
Alkaline Zinc Nickel Plating.

TRIDIP Passivation:

- Line of trivalent chromic conversions that Tecnochimica offers to all galvanizers.
- Our processes cover all market requests, from economical **blue** that is aesthetically constant over time, to **iridescent** characterized by very high resistance to corrosion, up to intense **black** and a range of colors that can be customized for each end-user.



III. Decorative Plating

Astro Nickel & Astro Roto

- The range of Rack & Barrel Bright Nickel Processes, formulated to obtain an excellent shiny, level and ductile finish, in all operating conditions.
- Suitable for all metal & particularly suitable for treating zamak and brass parts, as it has minimal sensitivity to copper and zinc pollution.



UltraChrome:

- Based on Sulphate base trivalent chromium.
- High efficiency.
- Excellent Coverage.
- Deposit color indistinguishable from traditional hexavalent chromium ($L > 82$; $b < 0$)



Other Processes:

- Acid Copper
- Alkaline Copper
- Hexavalent chromium
- Satin nickel
- Black nickel
- Cobalt tin
- White Bronze
- Blackening
- Gold
- Tin/Nickel



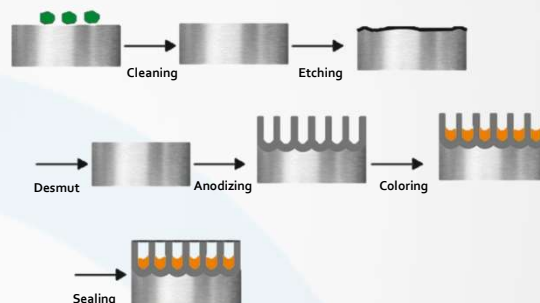


ALUMINIUM ANODIZING TECHNOLOGY
Chemicals, Processes, Equipment

Degreaser:

Aluclin 18SL

- Low foam mild alkaline degreaser silicate and borate free.
- Suitable for ultrasonic degreasing.



Etch additive:

Al 5004

- Long life etch additive.
- Free from nitrites, nitrates, chlorates, and chromates.
- Excellent bath stability.

Desmutting:

Deox HD4

- Deoxidizer for desmutting of Aluminum and its alloys.
- Free of nitrates, fluorides, and chromates.
- Used in combination with diluted sulfuric acid.



Complete Electrocolouring:

Metacolor Replinisher R5

- Electrolytic colouring
- Achieve optimum colour dispersion, utilization, and bath stability.
- Largely inhibit the oxidation of Tin(II) Sulphate.





ALUMINIUM ANODIZING TECHNOLOGY
Chemicals, Processes, Equipment

Gold dye:

Gold MC

- Decoratively colour gradations from Nickel-Silver to Dark Gold by simple dip treatment.
- Long bath lifetime and high stability.
- Rapidly soluble.



Cold sealing dual step:

PS- 48 1st Step

- Durable corrosion protection.
- Short dipping time.
- Long lifetime of the bath.
- Reduction of heating costs.

Sealox 2nd Step

- Durable corrosion protection after treatment in the first step with PS-48 by dipping in hot water bath as an additive.



Hot sealing:

Iso-seal GT

- Prevents smut formation on anodizing Aluminium.
- Good results in the weight loss test.

I. Coil Coating

Paint

- Polyesters
- Polyuretanes
- Top Coats
- Back Coats
- Primers
- Weldable Coating



Lubricant - Rust Preventive:

- Temper Fluids
- Skinpass Fluids
- Rolling Oils
- Pickling Oils
- Rust Preventives

II. Zinc Phosphating For Steel Wire

- Prepares the surface for subsequent cold forming, stamping and wire drawing & produces micro-crystalline, uniform layers.
- Excellent corrosion protection

III. Manganese Phosphating

- Forms uniform and adherent depositions with dark grey to black.
- Thick phosphating layers
- Excellent lubrication and wear resistant properties suitable for automotive parts, fasteners, washers and other moving components



VI. Blackening:

- Specialized products and processes for decorative black colouring.
- Corrosion protection for all ferrous materials (steel, cast iron) and stainless steel.



V. Hot Dip Galvanizing

- Degreaser
- Inhibitors
- Fume Suppressors
- Fluxes
- Passivating Agents
- Antiscaling Agents

IV. Quenching, Hot forming and forging

- Quenching polymers
- Releasing agents
- Lubricants



III. Cold Forming

Chemicals:

- Inhibitors
- Degreasers
- Picklers
- Conversion treatment
- Metallizers
- Passivating Agents
- Permanent Coating

Lubricant - Rust Preventive:

- Dewaterings
- Precoating Polymers
- Drawing Oils
- Rolling Oils
- Reactive Oils
- Rust Preventives
- Skinpass Fluids



Spin Casting

Matic Line:

- Advanced spin casting machines with automated features for efficient production.

Master Line:

- High-precision spin casting machines for intricate designs and complex moulds.

Vulcanizing Presses:

- Robust presses for vulcanization process, ensuring optimal mould quality.

Silicone Rubbers for Spin Casting:

- High-quality rubbers specifically formulated for low-melting metal alloys.



Vibro-finishing

Circular and Rectangular Vibrators:

- Versatile vibratory machines for deburring, polishing, and surface finishing.

Turbo Tumblers:

- High-speed tumblers for efficient and uniform finishing of small parts.

Vibrating Dryers:

- Equipment for drying and separating parts after finishing processes.

Waste-Water Treatment:

- Solutions for eco-friendly and efficient waste-water management.



Jewellery

Silicone and Organic Rubbers for Lost-Wax Micro casting:

- Specialized rubbers for precise and intricate jewellery casting.

P 300 GOLD:

- Vulcanizing press designed for jewellery manufacturing, ensuring accurate and consistent results.



Frames P 300 GOLD:

- Customizable moulding frames for jewellery production.

Enamelling

Enamel Ovens:

- Precise and reliable ovens for enamel curing and firing processes.

Heat-Radiant Surfaces:

- Innovative surfaces for consistent heat distribution during enamelling.

Enamel Dispensers:

- Tools for controlled and precise enamel application.



Enamels, Catalysts, and Additives:

- Comprehensive range of high-quality enamels and related chemicals.



Products for Lost-wax micro casting

- Specific products such as release agents and talcs, 3D resins and waxes for micro casting.
- Liquid silicones and paste for mould creation, vulcanizable at room temperature.
- Precision tool kit for rubber processing.





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