



**FARAYAND YEKTA PAJOOH Inc.**

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**2024**

FYP Products General Catalog

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## History

FYP (Farayand Yekta PajooH) is a leading provider of innovative industrial cleaners, lubricants, and oils in Iran. We proudly support many renowned Iranian industries by offering products that feature lower consumption rates, user-friendly applications, minimal sludge, suitable reaction times, and high efficiency.

With two decades of trusted experience, our innovative team of chemists is dedicated to **Formulating Your Productivity** through creating **Solution Solutions** on a tailor-made basis. We stand by our solutions to the last drop.

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[Our values](#)



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## **Our Vision: Uniqueness**

Formulating unique formulas for Iranian industries

## **Our Mission: Process-Driven Focus**

The cornerstone of our professional mission is adherence to a process-driven focus in research, production, training, empowerment, meeting customer needs, ensuring quality, offering technical services and consultation.

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## Our Values: Formulas

- Forward thinking
- Obligation
- Rapport
- Measurement
- Unity
- Learning
- Accountability
- Sustainability

Our Vision & Mission



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Pre Treatment

Lubricants



Anti Foams

Polishing Paste



Sodium Stannate

Tin Sulfate



Surface Remover

Descaler



Stabilizer

SKIN PASS



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## Pre Treatment:

Grease Cleaners ▶

Phosphates ▶

Sealer ▶

Rust Remover ▶

Corrosion Inhibitor ▶

Paint Remover ▶

Paint Detackifier ▶

Nutralizer/Passivator ▶

AntiOxidant ▶

Drawing Soap ▶

Drawing Powder ▶



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## Grease Cleaners-Tycho

Grease cleaners are used in various industries including automotive, home appliances, bolt and nut making and many other industries. The first step in metal surface preparation is making a clean surface for phosphating process which shall be operated on a surface with no pollution, dust or rust, so that it could be accomplished through chemical reaction between the ions of phosphate and metal surface. So the grease cleaning is the essential step.

In other words, Grease cleaners are the materials for separating of oil and grease from metal surface such as Aluminum, Iron, brass, copper and other alloys.

Different Kinds of Tycho grease cleaners are as follows:

■ Aluminum Cleaner ▶

■ Steel Cleaner ▶

■ Multi Metal Cleaner ▶

■ Galvanize Cleaner ▶

■ Ultrasonic Cleaner



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## Aluminum Cleaner

- Aluminum Cleaner in Liquid
- Aluminum Cleaner in Powder



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## Steel Cleaner

- Steel Cleaner in Liquid
- Steel Cleaner in Powder



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## Multi Metal Cleaner



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## Galvanize Cleaner

- Galvanize Cleaner in Liquid
- Galvanize Cleaner in Powder



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# Phosphates-Celex

Kinds of Phosphates:

Iron Phosphate ▶

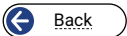
Iron Phosphate Metal Cleaner ▶

Zinc Phosphate ▶

Drawing Phosphate ▶

Manganese Phosphate ▶

Nano Phosphate ▶



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# Phosphates-Celex

Kinds of Phosphates:

Iron Phosphate ▶

Iron Phosphate Metal Cleaner ▶

Zinc Phosphate ▼

Dicathionic Zinc Phosphate ▶

Tri Cathionic Zinc Phosphate ▶

Drawing Phosphate ▶

Manganese Phosphate ▶

Nano Phosphate ▶



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## Iron Phosphate

Iron phosphate is applied as a pre treatment basis which are being used in form of spray and immersion. The average thickness of phosphate coating shall be 0.2 to 0.8 microns on the surface. Iron phosphate could be used with grease cleaner simultaneously as a mixture liquid which is a great advantage in comparison with other kinds of phosphates.

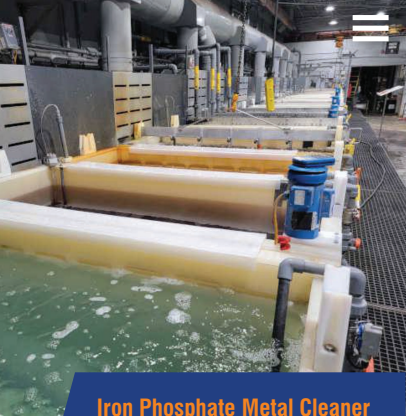


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## Iron Phosphate Metal Cleaner

This product is used for **simultaneous** degreasing and phosphating of metal parts, which is used to prepare metal surfaces for stronger paint adhesion.



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## Zinc Phosphate

This kind of Phosphate has two sorts as below:

- **Dicathionic Zinc Phosphate**
- **Tricathionic Zinc Phosphate**



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## Dicathionic Zinc Phosphate

This kind of phosphate is classified to "Zn-Ni" and "Zn-Cal".

- Zn-Ni
- Zn-Cal



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## Tricathionic Zinc Phosphate

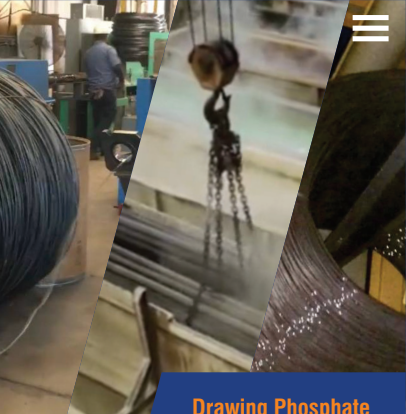
This coating are two kinds of "Zn-Ni-Ca" and "Zn-Ni-Mn". They have different applications in various industries and diversify from rough heavy crystals to microscopic soft crystals. Their colors are light gray to dark gray. In splash method, coating thickness shall be 2 to 5 microns and 2 to 10 microns in immersion method.

- Zn-Ni-Ca
- Zn-Ni-Mn



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## Drawing Phosphate

This coating will be used in phosphating of Iron, Steel surfaces and specially for cold drawing operation of pipes and metal parts' surface as well as different kinds of wires drawing, sizing and forging. Also they are applied to protect against environmental corrosion which is used in shape of immersion.



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## Manganese Phosphate

This kind of phosphate will be applied in shape of immersion only and their color is blackish gray. The required time of coating is varied between 15 to 30 minutes and coating thickness amount on metal surface shall be 5 to 20 microns.



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## Nano Phosphate

This coating will be used for crystalizing of metal parts to protect against environmental corrosion and surface preparation for paint stability and more adhesion completely.



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# Sealer-Silco

Kinds of Sealer:

Chromated Sealer



Aluminum Chromate Conversion



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## Chromated Sealer

This product is applied after phosphating to accomplish the finishing operation.



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## Aluminum Chromate Conversion

This coating increases the adhesion of paint to the metal surface and increases the resistance to metal corrosion and is used to create a chromate coating on aluminum and galvanized surfaces.



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## Rust Remover-Deox

This product is a substance on the basis of organic and inorganic acids which are used to rust removing from metal surfaces.



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## Corrosion Inhibitor

These materials have anti-corrosion properties for metals, which are in liquid form and are consumed in the form of water / liquid soluble. This is to create a protective and corrosion-resistant layer against environmental moisture and oxidation and increases the lifespan of metals.



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## Paint Remover-Brokin

Paint removers are divided into three types: acidic, alkaline and gel, which are able to remove all types of paint from the surface of metal and non-metal parts at room temperature.



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## Paint Detackifier- Water Wash

Water Wash is a substance with surface absorption properties, designed to absorb paint and coagulate the sprayed paints on water in the paint waterfall which can be used for all kinds of paint.



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## Nutralizer - Nutra

It is used to adjust the acidity or alkalinity amount of all types of washing bath.



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## Anti Oxidant - Anti Oxid

It is a protective substance that prevents metal parts from rusting after washing with degreasing cleaners or to be used after washing with acid for glazing.



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## Drawing Soap- Soap

It has been designed to facilitate cold drawing and extrusion of phosphated surfaces of pipe, wire and other parts. For this reason, the surfaces are reacted with a soap solution before drawing process.



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## Drawing Powder - Draw Chem

Drawing lubricant powder is obtained from the processing of metallic and non-metallic minerals, which will reduce friction in the process of drawing the wire due to protective and lubricating properties and lead to machinery performance optimization and increase the dies, lifespan, which is used for sizing all kinds of wire in form of dry, calcium and sodium types.



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## Lubricants-Diafit:

Industrial Lubricants for Metals ▶

Wire Drawing Lubricants ▶

Textile Industry (Textile Oils & Auxiliary Materials) ▶



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# Industrial Lubricants for Metals

Kinds of Industrial Oils are:

FORMING Drawing Lubricant ▶

Release Agent (Waterbased) ▶

Cutting Fluid & Oil (Z1) ▶

Quenching Liquid ▶

Quenching Oil ▶

Metal Protective Liquid ▶

Hot Forging Liquid ▶

Metal Protective Oil ▶

Glass Cutting Fluids ▶

Neat Cutting / Broaching Oil ▶



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## Forming Drawing Lubricant

Due to high pressure tolerance and maintaining viscosity, drawing forming oils are being used for forming all kinds of alloys at different depths. It's high washing power as well as ability to wash easily is one of the prominent features of this oil which can be removed from the desired surface with minimum amount of detergent usage.

In addition, its high purity percentage leads to low consumption coefficient, so it is approved by all kinds of automotive and household appliance industries. The types of these oils are:

- Alminum Drawing Oil
- Stainless Steel Drawing Oil
- Steel Drawing Oil



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## Release Agent (Waterbased)

Water-based Release Agent is used for aluminum diecast machine with low consumption and release without sticking, without smoke and leaving no stains on parts and molds.



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## Cutting Fluid Oil (Z1)

Emulsifying oils for all kinds of alloys, without the need of any kind of additive and compatible with hard water, without fumes, high stability and long life are used in various industries.



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## Quenching Liquid (Coolant Liquid)

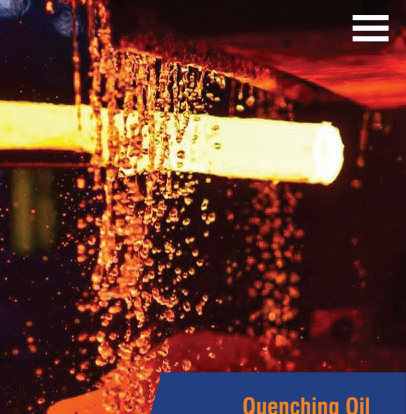
Quench liquid with high economic efficiency is used in various industries due to its water solubility with no splashing, no smoke, no ignition, and hardening ability completely.



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## Quenching Oil

Quench oil with high flash point and defined index viscosity makes the hardening operation complete.



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## Metal Protective Liquid

The metal protective liquid is soluble in water and prevents oxidizing of part's surface by creating a very thin film on the part.



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## Hot Forging Liquid

Hot forging liquid is water-soluble liquid and prevents adhesion by creating a white layer between the part and the mold with no environmental pollution. Also this liquid prevents damage to the mold by temperature resistance up to 1200 degrees Celsius.



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## Metal Protective Oil

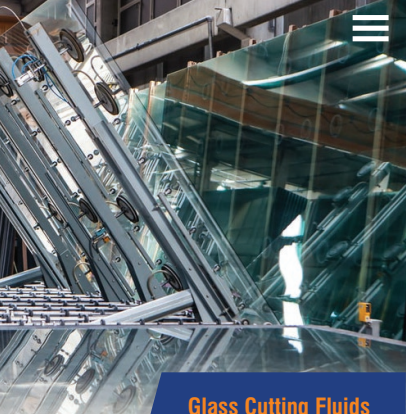
Metal Protective Oil prevents metal oxidization through a thin film creation on part's surface.



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## Glass Cutting Fluids

This oil is water soluble and it is used with no stain leaving on the glass and crystals by low consumption rate.



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## Neat Cutting / Broaching Oil

Having high flash point, defined viscosity and suitable heat capacity, this oil can accomplish this operation completely. Creating no stain, maintaining viscosity and long life is one of the prominent features of this oil.



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# Wire Drawing Lubricants

The kinds of drawing lubricant for wire and cable are:

Aluminum Wire Drawing Lubricants



Stainless Steel Wire Drawing Lubricants



Steel Wire Drawing Lubricants



Copper Wire Drawing Lubricants



Hot Rolling Oil



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## Aluminum Wire Drawing Lubricants

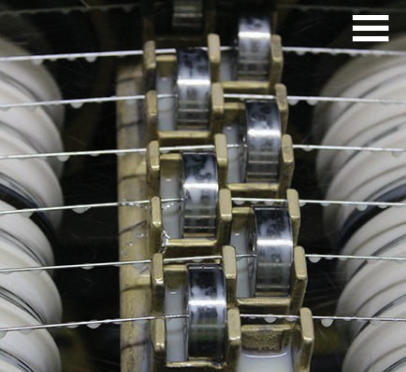
This oil with defined viscosity, high flash point and long life is used in aluminum wire drawing.



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## Stainless Steel Wire Drawing Lubricants

Having high viscosity and special additives for endurance and maintain stability in high pressure, high temperature as well as creating super high lubrication property cause drawing to all kinds of Steel wires.



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## Steel Wire Drawing Lubricants

High viscosity property and having special additives in this product to tolerate high pressure, high temperature as well as super high lubrication cause drawing to all kinds of steel wires.



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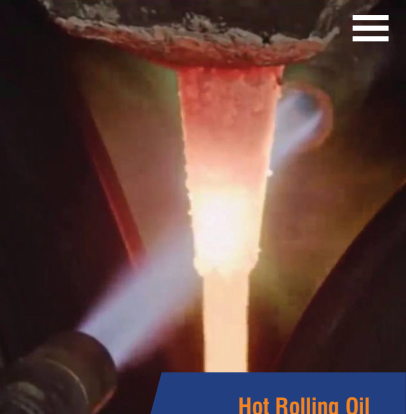
## Copper Wire Drawing Lubricants

Due to its low consumption and without the need for any type of additives, copper wire drawing oil has attracted the attention of the cable industry with its high washability.



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## Hot Rolling Oil

Having the features of easy solubility and high heat capacity, hot rolling oil is applied without solution spraying around and with high stability.



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# Textile Industry

(Textile Oils & Auxiliary Materials)

Different kinds of Textile Oils:

Textile Finishing Oil



Anti Static (Oils & Liquid)



Emulsifying Oils



Stretch Oils



Silicone Oils



Auxiliary Materials:

Anti Foams



Biocides



Softeners



Post Cleaner Soap



Creasing AG



Detergents



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## Textile Finishing Oil

It is used as a lubricating oil in the process of stretching textile fibers, and it contains substances that lead to the reduction of the fibers and threads' friction and finally static electricity discharging. This oil has many applications in the textile industry, which include:

- Production of cotton type fibers in denier 1.2 to 1.8
- Solid polyester production line in 2 to 15 denier
- BCF, CF production line
- Carding production line
- Production of staple polyester fibers
- FDY polyester filament production line
- DTY texturizing production line
- POY production line
- ITY production line
- Solid recycling production line, virgin (pure) and semi-virgin (semi-pure)
- Byko production line



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## Anti Static (Oil & Liquid)

The applications of this product in production lines are as follows:

- Dry halo production line
- Carding (needle layer) and Thermal Fuse production line
- Production line for spinning acrylic fibers using Tow To Tops method
- Production of 100% polyester industrial carpets
- Production of all kinds of synthetic and natural yarns and fabrics



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## Emulsifying Oils

FYP has the honor to be of the local pioneers in the industry in the field of emulsifying oils production for Snow Touch producing complying with the latest international standards. Their application in the production line are including:

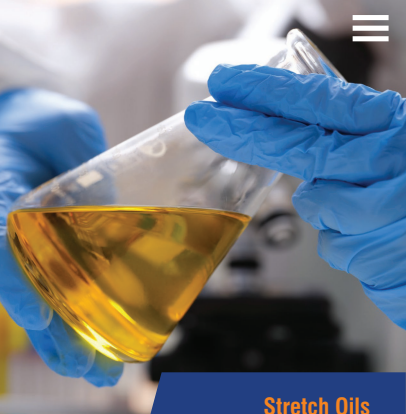
- Recycle Solid production line, virgin (pure), semi virgin (semi- pure)
- Carpet production line (velour, tufting, felt)



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## Stretch Oils

The application of this oil are:

- ITY
- TFY
- ATY
- DTY



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## Silicone Oil

This oil is used for cleaning and lubricating fabric fibers and is non-toxic, non-flammable and fire-resistant.



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## Anti-Foams

There are three types of anti-foams: alcohol, silicone and oil based which are used in various industries.



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## Biocides

There are a group of chemicals that are used to destroy any harmful microorganisms and they are also called bactericides or biocides. As a result, biocides are used to disinfect, sterilize the surfaces and objects and eliminate microbial living conditions.



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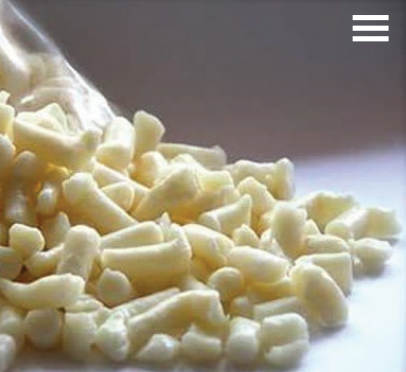
## softeners

Fabric softeners are chemical substances that are prepared as an oily liquid and applied as a lubricant on textile materials. As a result, it causes the fibers to become slippery on the surface of the fabric and facilitates shape changing and folding, so it creates a sense of smoothness, softness and delicacy in the fabric.



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## Post Cleaner Soap

It is a colorless liquid that is added to the fabric and print, in the final washing process, at the end of the dyeing operation to remove unabsorbed colors from the surface of synthetic and natural fabrics.



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## Creasing AG

Due to the creation of a slippery surface on the fabric, this material reduces friction and wear amount and prevents breakage and creasing on the fabric surface in result.



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## Detergents

Based on the operation at low or high temperatures in alkaline and neutral environments, textile soaps are divided into three categories: anionic, nonionic and cationic, which are used in dyeing in order to wash, decolor and remove excess colors from the surface of the fabric, depending on the type and material of the fabric.



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# Polishing Paste

It is a metal polishing polish with the following advantages and functions:

- Polishing and making metals shiny
- Repairing scratches and making shiny metal surface of matt and opaque one
- Easy usability
- Repairs damage caused by acids and detergents on the surface of metals
- Ability to remove scratch
- Ability to make steel sinks shiny
- Ability to make steel dishes shiny
- Repairing damages caused by blows of press and mold devices
- Ease of washing after the polishing operation
- Restore the minor surface damages of metal parts



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## Anti Foams Lofo

There are three types of anti-foams: alcohol, silicone and oil based which are used in various industries.



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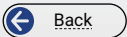
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## Sodium Stannate-Vatrol 10

It is used to cover tin on electrical parts and car spare parts.





## Tin Sulfate-Vatrol 20

It is applied for tin plating on the surface of decorative, automotive and electrical parts.



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## Surface Remover-PVD

It is used for reconstruction of waste electroplating parts by PVD method, which leads to production cost optimization.



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## Descaler-Sed-Kill

Descalers are based on acidic or neutral compounds, which are used to remove any carbonate deposits, iron oxide, iron hydroxide, and iron phosphate.



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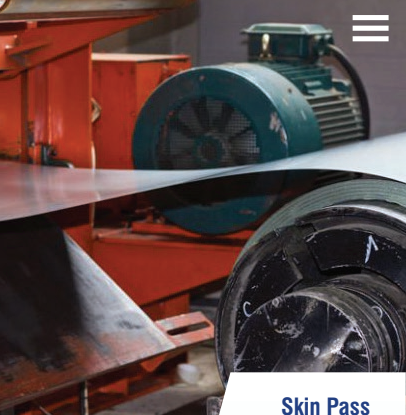
## Stabilizer

In order to increase the stability of the bath solution and prevent the oxidation of tin sulfate, stabilizer solution is used. This material has complex compounds and chemical stabilizers and leaving this material in front of the sunlight and air shall be avoided.



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## Skin Pass

With high lubrication and effective washing, this liquid has an anti-corrosion effect and is compatible with metal protective oils and steel surfaces and galvanized sheets.



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