

**net**kimya



SURFACE TREATMENT CHEMICALS







netkimya

# index

Net Kimya Sanayi	2
Quality Policy	3
Surface Treatment Technologies	4
Application Areas	5
Degreasing Chemicals	6
Phosphates	7
Nanotechnology Coatings	8
Aluminum Surface Treatment	10
Conversion Coating Used Before	10
Powder Paint Applications	
Anodized Coating Chemicals	11
Laboratory Services	12
Other Chemicals	12

## Net Kimya Sanayi

NET Kimya was founded in 1996 and come until today through gradually increasing its technical power and market share. Our aim is to add value each company we work with continuous development policy, to increase customer satisfaction, and to achieve perpetual success. Beginning from the foundation, our company has created a totally new identity and excitement in the market with its technical knowledge, its service which enables problem solving, and close customer relations. Adopting the principle of growth by sharing in all stages is one of the most important factors increasing our efficiency and customer satisfaction. We track technological innovations, create, and apply them with continuous training, functional system, and powerful studies. Research & development works of our products have been conducted without any license affiliation. Our main purpose is to show our local production capabilities in international chemicals industry with these products that we made brand.

Our journey that we take with our experienced founders who take systematic and ordered work as a principle have been inspected in the first half of 2008 by Bureae Veritas and certified with ISO 9001. Our certificate is updated as ISO 9001:2008 in 2011, and in this way our certificates are improved.

# Surface Treatment Technologies

**Surface Treatment Chemicals, Protective Coatings**



# Quality

## **Quality Policy**

Our primary principle is to prioritize customer satisfaction with our organization based on continuous improvement and development. We conduct our business with the aim to be a company having high competitive force in the industry that can create easily updated, quick, efficient, and affordable solutions, to work with a team spirit that is creative, and visionary, to complete development of our employees with communication and training means, to develop our cooperation on all occasions with our abroad representatives and suppliers, to closely monitor advancements and modifications through observing economical and legal requirements as a whole, and to provide contemporary, rapid, and efficient services to our customers within a cooperation based on objective information and mutual trust.

## **Our Vision**

To be an expedient brand at home and abroad in surface treatment chemicals industry.

## **Our Mission**

To create efficient product groups that are sensitive to human and environmental life and enable savings on resources.

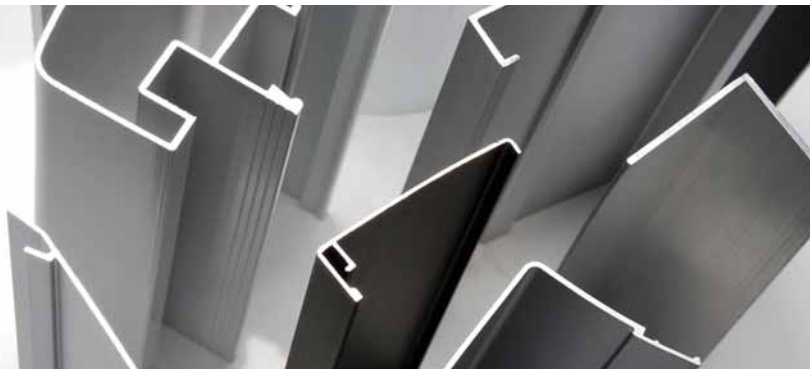
## **Training**

We have our knowledge with anyone calls us. We believe that knowledge has been enhanced through sharing. In surface treatment industry, our young, dynamic, and well-trained technical staff applies training programs to each company served and gives certification with their mobile training set. These training programs can also be repeated periodically if requested.

## **Human and Environmental Health**

Health of environment and employees is quite important for us as for each company. Studies of development of products having no damage to the environmental and human health are continuously carried out. On the other hand, we conduct studies which will enable us to deduct on costs and to protect our resources.





# Surface Treatment

## Surface Treatment Technologies

It has been used for cleaning different products such as oil, carbon, oxide layer, rust, and corrosion products that have been formed on the surface for any reason.

It is used for protecting corrosion which may occur during storage and delivery of the material and for increasing corrosion resistance.

It has been used for ensuring a better adhesion between the surface and paint in coatings with paint and similar coatings.

It is used for decreasing wear between metals.

It is applied for bringing an aesthetic view.

It is used for decreasing friction in cold forming.

Chemicals to be used in surface cleaning should correspond to the metal type. The purpose here is to remove different impurities such as oil, oxide, rust, carbon, metallic and polishing residuals on the surface. Surface cleaning quality directly affects after-treatment surface quality. While duration of impurities stay on metal surface increases, then cleaning process will be considerably become difficult. Protective Coatings are applied for the purpose of increasing protectiveness of cleaned surface against outside environment and/or enabling ease of application for subsequent procedures.

Coating type to be applied will be changed based on type and purpose of metal.

# Surface Treatment Technologies

**Surface Treatment Chemicals, Protective Coatings**



# Chemicals

## **Application Areas**

Aviation Industry  
Electric and Electronic  
Oil Exploration Equipment Parts  
Aluminum Industry  
Automotive Industry  
General Industrial Applications  
Communication  
Bike and Motorbike Industry  
Heating and Cooling Industry  
Illumination Industry  
White Goods Industry  
Home and Office Furniture  
Elevator Industry  
Parts for Shelves and Supermarkets



# Degreasing

## Degreasing Chemicals

These are chemicals used for removal of dirt, rust, and oil occurred on metallic and/or non-metallic surfaces which can be applied with different methods such as wiping, immersing, and spraying. If material surface is not sufficiently cleaned, then this will affect the quality of after-treatment applied afterwards.

- Alkaline Degreasing
- Acidic Degreasing
- Electrolytic Degreasing
- Neutral Degreasing





# Surface Treatment Technologies

## Surface Treatment Chemicals, Protective Coatings



### Phosphates

Phosphating processes used prior to painting applications can be applied on all metal surfaces containing iron & steel, aluminum, zinc, and alloys. After cleaning metal parts and rinsing with water, if there is no application for surface protection purposes, then the surface may be corroded during drying. In order to prevent that, protective coatings with chemical methods are formed.

It can be listed advantages enabled by phosphating process to the surface as follows:

- It prevents corrosion on the surface during drying by applying after cleaning process.
- Roughness provided by protective coatings increases paint adhesion quality.
- Protective coatings together with paint increase corrosion resistance of the material, and extend economic life of the finished material.
- It is used for decreasing friction in cold forming.

[Iron Phosphating Processes](#)

[Zinc Phosphating Processes](#)

[Heavy Zinc Phosphating Used with Protective Oils](#)

[Manganese Phosphating Process](#)



# Nanotechnology

## Nanotechnology Coatings

Our world is continuously consuming its resources with each passing day. Also, regular phosphates also affect environmental health due to compounds, surfactant agents, and catalysts contained. As a result, it has been designed next generation conversion coatings which don't threat human and environmental health, enable savings on using resources, and compatible with any metal. As in regular phosphating process, after cleaning metal parts and rinsing with water, if there is no application for surface protection purposes, then the surface may be corroded during drying. In order to prevent that, protective conversion coatings are formed with chemical methods which don't threat environmental and human health.

- Chrome+<sup>3</sup> Compound Coatings
- Zirconium Coatings
- Organic Coatings
- Silane Content Coatings

# Surface Treatment Technologies

**Surface Treatment Chemicals, Protective Coatings**



Recently, we define new generation products as nanotechnological products.

We identify “nano” term with all new generation formulas thanks to its thin thickness (1-100 nm) which couldn't be measured, containing zirconium, titanium, or  $\text{Cr}^{+3}$  compounds instead of containing heavy metals such as nickel, manganese, chrome, or lead, enabling savings and ease of operation in environment, human health, and resources, and creating a very thin layer on the surface.







# Aluminum

## Aluminum Surface Treatment

Corrosion resistance of aluminum metal is considerably high with respect to iron-steel material. A natural oxide layer is formed on the aluminum surface that has contact with air under ambient conditions. However, this natural oxide layer formed negatively affects corrosion resistance.

- Oxide layer is very thin and has irregularities ( $<0.2$  micron).
- Oxide layer can rapidly dissolve in ambient temperatures.

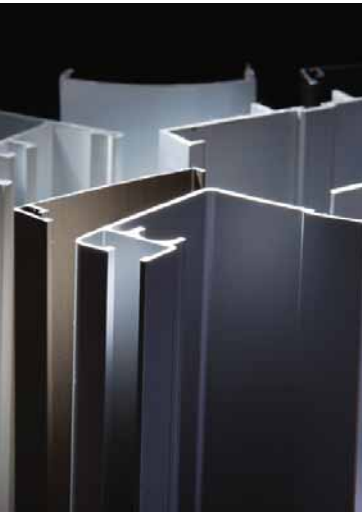
Due to the facts mentioned above, aluminum is protected with conversion coatings or anodized process before powder paint in order to provide a better corrosion resistance on aluminum surface.

## Conversion Coatings Used Before Powder Paint Applications

- Products Containing  $\text{Cr}^{+6}$
- Products Containing  $\text{Cr}^{+3}$
- Products Containing No Chrome
- Silane Content Products
- Organic Coatings

# Surface Treatment Technologies

## Surface Treatment Chemicals, Protective Coatings

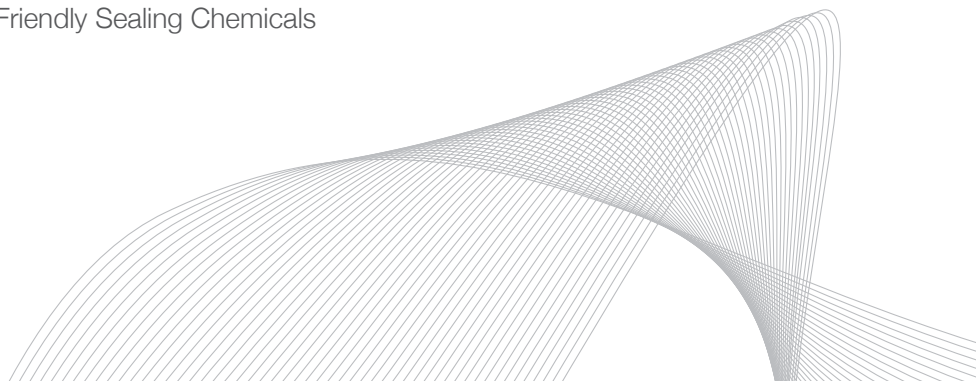


# Surface Treatment

### Anodized Coating Chemicals

Aluminum and its alloys are processed with sulphuric or chromic or phosphoric or oxalic acid regarding decorative purposes and resistance to corrosion, and then a uniform oxide layer is formed on the surface. Generally, anodized processes with Sulphuric Acid are widely used.

- Degreasing Chemicals
- Caustic Etching Chemicals
- Acidic Etching Chemicals
- Electro & Chemical Brightening Products
- Additives for Anodized Bath
- Neutralization Chemicals
- Electrolytic Coloring Chemicals
- Special Coloring Processes
- Organic Coloring
- Inorganic Coloring
- Hot Sealing
- Sealing Operated Under Low Temperatures
- Cold Sealing
- Environmentally-Friendly Sealing Chemicals
- Other Chemicals





# Laboratory

## Laboratory Services

- Analysis of All Products We Offer Sales service
- Water Control Analysis
- Analytical Solutions
- Indicators
- Other Analysis Chemicals
- Water Analysis Kits
- Surface Treatment Process Kits
- pH Buffer Solutions
- Analytical Chemicals
- General Laboratory Consumables

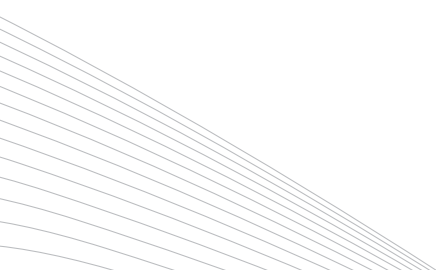
## Other Chemicals

- Blackening Iron-Steel Materials
- Antique Coloring
- Rust Removal Chemicals
- Passivation for Electro Coating
- Passivation for Phosphating Processes
- Acid Inhibitors
- Other Inhibitors
- Electroless Coatings
- Corrosion Protective Inhibitors
- Paint Strippers
- Water Conditioning Chemicals
- Chemical Deburring and Polishing Chemicals
- Protective Lubricants
- Special Chemicals



# Surface Treatment Technologies

**Surface Treatment Chemicals, Protective Coatings**





**netkimya**

SURFACE TREATMENT CHEMICALS

**NET KİMYA  
SANAYİ VE TİCARET LTD. ŞTİ.**

Eyüp Sultan Mah. Aktar Sok. No: 2C/D  
Sancaktepe-İSTANBUL/TÜRKİYE  
Tel: +90 216 561 94 81 Faks: +90 216 561 76 55

[www.netkimya.com.tr](http://www.netkimya.com.tr)