



APPLICATION OF
SOLCHEM

CHEMICAL PRODUCTS FOR
HOT DIP GALVANIZING

2022

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Metal Support

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SolChem has become recognized in the market for surface treatment of all types of metals and their alloys. Our products can be found in automotive, construction, electrical product and household appliance industries. As an experienced supplier to hot-dip galvanizing companies, we offer a complete range of chemicals in process of Hot Dip Galvanizing.

22+

YEARS
of experience

98+

NUMBER
of products

49+

REFERENCES

- **Own production**

Chemicals manufactured in our own production facilities

- **Quality**

Carefully chosen best raw materials

- **Technical Support**

Our expert team inspects products and provides support to customers at all stages

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Surface Technology

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Solchem surface technology

ELECTROPLATING

Industrial part cleaning
(Cleaners for grease removal, Pickling solutions,
Activation + Passivation)

HOT-DIP GALVANIZING

Chemical products for complete
process of Hot-dip galvanizing
(Degreasing, Rinsing, Pickling, Fluxing Drying, Galvanizing)

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Hot-dip galvanizing

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Chemical products for Hot-dip galvanizing

ACID DEGREASING

SA 125 LP

Liquid acidic degreaser

SA 125

Liquid acidic degreaser

SC 119 CNO

Liquid phosphate free acidic degreaser

PICKLING PROCESS

SA 22

Inhibitor for pickling acids

Antivapor

Reducer of acid fumes

PASSIVATION

SA 205 KN

Liquid one-component trivalent blue passivation based on chromium (III)

ALKALINE DEGREASING

SC 288 EH

Powder alkaline degreaser

SC 227

Liquid alkaline one-component degreaser

FLUXING PROCESS

SolChem Flux 209

Flux solution (60:40)

Galva Flux

Zinc Ammonium Chloride crystals

SA 207 Polytenid

Flux wetting agent

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Degreasing

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DEGREASING – USES

- Reducing the transfer of fats, oils, emulsions and other impurities to pickling baths.
- Ash formation is reduced – the surface of the elements is well-cleaned, which decreases impurities that can react in molten zinc.
- Life of the filter on the zinc kettle is extended.
- Duration of the next phases of chemical preparation is extended.

Acid degreasing

SA 125 LP

Liquid acid degreaser, based on phosphoric and hydrochloric acid

- Contains surfactants for best degreasing efficiency and corrosion inhibitors.
- Reduces precipitation which leads to less sludge/muds in working bath.

SA 125

Liquid acid degreaser, based on phosphoric and hydrochloric acid

- Contains anionic and non-ionic surfactants with excellent degreasing effect.
- Contains corrosion inhibitor to protect base material.

SC 119 CNO

Liquid phosphate - free acidic degreaser

- Special mixture of acids and synthetic biodegradable surfactants which provides very good cleaning performance.
- Contains components that reduce acid fumes.

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Degreasing

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Alkaline degreasing

SC 288 EH

Powder alkaline degreaser

- It is a powder degreaser used to clean iron and steel parts.
- Contains surfactants for removing heavy grease and ensuring long-lasting use.

SC 227

Liquid alkaline one-component degreaser

- The product is a high-alkaline one-component liquid degreaser intended for degreasing of materials made of steel and iron.
- Made of power surfactants for detailed degreasing of surfaces.
- Suitable for operation at lower temperatures (cost-saving) compared to conventional chemical degreasers.

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Pickling

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Pickling

In order to avoid dissolution of the base steel into the acid solution, it is necessary to add inhibitors. The inhibitors prevent reaction between the acid and the steel. It is also necessary to add antivapor to the pickling bath. Using the antivapor helps to decrease the surface tension of the acid molecules, which leads to decreased vapor emission in the pickling bath.

SA 22

Inhibitor for pickling acids

- Extends the service life of the pickling working solution.
- Reduces acid consumption.

Antivapor

Reducer of acid fumes

- Minimizes the formation of hydrochloric acid aerosols in the working area.

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Fluxing

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Fluxing

SA 207 Polytensid

Flux wetting agent

- Used as a flux additive that improves the wettability of the material surface in the process of chemical preparation of steel before hot-dip galvanizing.
- Reduces the surface tension in the flux bath and improves the quality and homogeneity of the flux.

Galva Flux

- Double salt zinc crystals suitable for hot dip galvanizing.

SolChem Flux 209

- Liquid flux solution for hot dip galvanizing based on ammonium chloride and zinc chloride dissolved in 700 g/l.

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Passivation

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Passivation

Zinc provides long-term protection of steel from corrosion but is still a "reactive metal". One of the most common problems in hot-dip galvanizing process is white rust. In order to avoid this problem, the recommendation is to use passivation.

SA 205 KN

Liquid one-component trivalent blue passivation based on chromium (III)

- Freshly passivated elements keep the gloss and SA 205 KN prevents formation of white rust.
- Free of chromium (VI) and cobalt.





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