



Samas Chemicals

Product Catalog

- Anodizing Chemicals
- Powder Coating Pretreatment Chemicals



Introduction

Samas Chemicals is the leading chemicals supplier for aluminium anodizers and powder coaters in the GCC.

Our aim is to build long-term relationships with our clients that are win-win for both parties. We strive to build lasting bonds with our clients by being honest, ethical, and reliable.

We fully guarantee all our products, and our team of experts is ready to provide technical support if needed. Our team is based in Dubai and can quickly respond to any of our clients' needs. Customer satisfaction is the number one priority at Samas Chemicals.

We provide the full range of chemicals required by aluminium anodizers as well as powder coaters. Our products include degreasing, etching, sanding, coloring, sealing, chemical brightening, and passivation additives. We also offer a full range of environmentally-friendly products.

We pride ourselves on supplying affordable chemicals without compromising on quality. This helps our clients compete in an increasingly competitive environment. At the same time, our clients never have to worry about product reliability.

We provide unrivalled support to prospective clients to ensure a smooth transition from their current chemical supplier. We are also more than happy to help improve your current processes and increase your efficiency.

We thank you for your interest in Samas Chemicals. If you have any questions, you may find our contact information on the back cover of this catalogue.

The Samas Chemicals Team

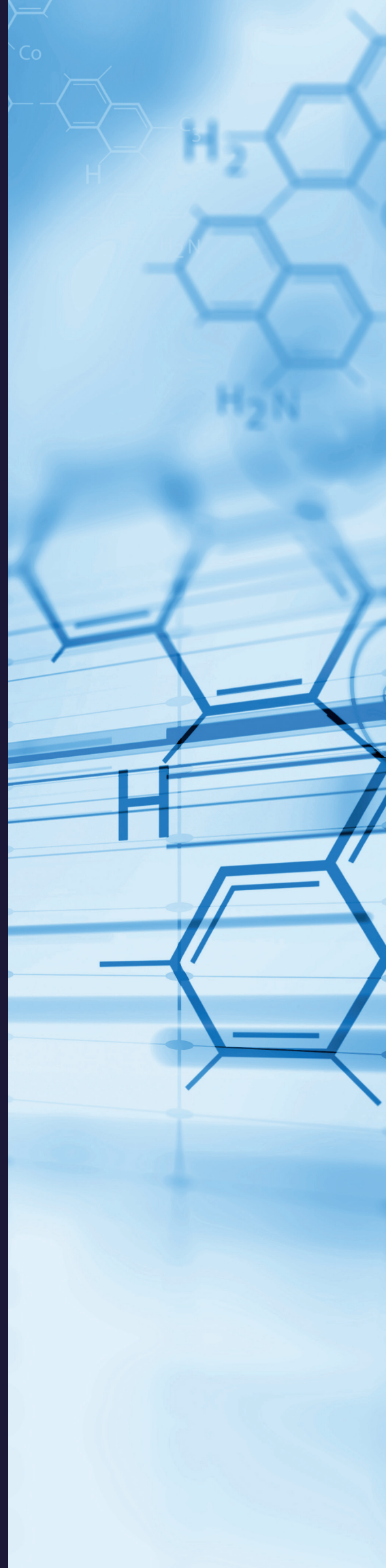


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Pickling Additive

SC-D02-L



Liquid pickling additive. Used to clean the surface of aluminium.

Features

- Removes oil and greases.
 - No need for tank circulation.
 - No need for air agitation.
 - Aluminium can be anodized directly after use of this product and subsequent rinse.
 - Can be used as a brightner.
 - No need to set up a new bath. Can be added directly to current degreasing bath.
 - No formation of corrosion marks.
-

Production Sequence

Anodizing

Pickling — Rinsing — Rinsing — Etching — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — Coloring — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Powder Coating

Pickling — Rinsing — Rinsing — Passivation — Rinsing — Rinsing

Tank Requirements

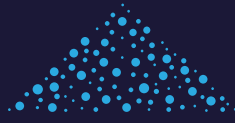
- Acidic resistance.
-

Packaging and Storage

- 25 kg plastic drum.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Alkaline Degreasing Additive

SC-D03-P



Powder degreasing agent that quickly removes oil, dirt, and grease.

Features

- Fast acting agent.
 - Removes oil, dirt, and grease.
 - Retains original luster of aluminium.
 - Low cost.
 - Long life.
 - Strong wetting action.
 - Non-corrosive nature.
-

Production Sequence

Degreasing — Rinsing — Rinsing — Etching — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — Coloring — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Tank Requirements

- Alkaline resistance.
 - Steel steam heating pipe.
 - Light air agitation.
-

Packaging and Storage

- 25 kg plastic bag.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Fumeless Brightening Additive

SC-B05-L



Liquid chemical brightening additive.
Used to achieve a bright finish on aluminium alloys.

Features

- Works alone – no need to add other agents.
- Replaces alkaline degreasing and pickling.
- Can be recycled on-site using a complimentary machine.
- No smoke or fumes during production.
- Environmentally friendly.
- Can produce a very bright finish on most aluminium alloys.
- Can produce a mirror-bright finish if polished prior to brightening.
- Low consumption.
- Brightness lasts indefinitely.
- No acid flow trace.
- Easy to control and maintain. Excellent stability.

Production Sequence

Chemical brightening – Rinsing – Rinsing – Desmutting – Rinsing – Rinsing – Anodizing – Rinsing – Rinsing – Coloring – Rinsing – Rinsing – Sealing – Rinsing – Rinsing

Tank Requirements

- Made of at least 5mm thick 316L stainless steel.
- 316 L stainless steel steam heating pipe.
- 316 L stainless steel cooling pipe. Tap water or nearby rinsing tank water can be used.
- Air agitation.

Packaging and Storage

- 35 kg plastic drum.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Dewaxing Additive

SC-D04-L



Liquid dewaxing additive. Specially formulated to dissolve wax and polishing paste.

Features

- Unique wax-dissolving agent.
 - Excellent at removing polishing paste.
 - Non-corrosive.
 - Retains the original luster of the substrate.
 - Long life.
 - Low cost.
 - Strong wetting action.
-

Production Sequence

Dewaxing — Rinsing — Chemical brightening — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — Coloring — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Tank Requirements

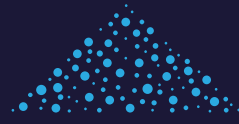
- Alkaline resistance.
 - Light air agitation.
-

Packaging and Storage

- 25 kg plastic drum.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Desmutting Additive

SC-DT02-P



Powder additive that helps with desmutting after chemical brightening.

Features

- Helps with desmutting after chemical brightening.
- Environmentally friendly.
- Speeds up processing time of desmutting tank.
- Low cost.
- No fumes or toxic smells.

Production Sequence

Chemical brightening — Rinsing — Rinsing — **Desmutting** — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — Coloring — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Tank Requirements

- Acidic resistance.
- Light air agitation.

Packaging and Storage

- 25 kg plastic bag.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.



Acidic Sanding Additive

SC-SD01-L



Liquid additive that creates a sandy finish on aluminium.

Features

- Fast-acting agent.
- Creates uniform sand grains.
- Can cover extrusion lines and surface defects.
- Works at room temperature.
- Aluminium consumption is low.
- Low production cost – suitable for aluminium profiles.

Production Sequence

Degreasing — Rinsing — Rinsing — **Sanding** — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — Coloring — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Tank Requirements

- Acidic resistance.
- Air agitation.
- Copper steam pipe for heating.

Packaging and Storage

- 25 kg plastic drum.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Hot Acidic Sanding Additive

SC-SD02-L



Liquid sanding additive used instead of mechanical sandblasting.

Features

- Excellent quality for high-end products such as mobile phones and medical equipment.
- Uniform and bright sanding.
- Low pollution.
- Alternative to mechanical sandblasting.
- Excellent for small pieces because mechanical sandblasting might dent or physically alter small pieces.
- Very even appearance.

Production Sequence

Degreasing — Rinsing — Rinsing — **Sanding** — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — Coloring — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Tank Requirements

- Made of at least 5mm thick 316 L stainless steel.
- 5 mm 316 L stainless steel steam heating pipe.
- Air agitation.

Packaging and Storage

- 25 kg plastic drum.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Liquid Etching Additive

SC-E01-L



Liquid additive that helps achieve better results in the caustic soda tank.

Features

- Prevents precipitation in the tank.
- Improves surface quality of aluminium.
- Prolongs tank life.
- Restrains the production of alkaline mist.

Production Sequence

Degreasing — Rinsing — Rinsing — **Etching** — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — Coloring — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Tank Requirements

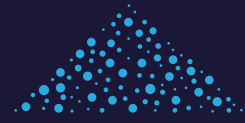
- Alkaline resistance.
- Steel steam heating pipe.
- Air agitation.

Packaging and Storage

- 25 kg plastic drum.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Powder Etching Additive

SC-E01-P



Powder additive that helps achieve better results in the caustic soda tank.

Features

- Prevents precipitation in the tank.
- Improves surface quality of aluminium.
- Prolongs tank life.
- Restrains the production of alkaline mist.

Production Sequence

Degreasing — Rinsing — Rinsing — **Etching** — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — Coloring — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Tank Requirements

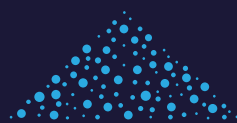
- Alkaline resistance.
- Steel steam heating pipe.
- Air agitation.

Packaging and Storage

- 25 kg plastic bag.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Tin Sulfate

SC-T01-P



Powder tin sulfate used in coloring tanks to achieve a green-bronze-black color.

Features

- Works best when combined with SC-C01-L.
- Produces green-bronze-black color.

Production Sequence

Degreasing — Rinsing — Rinsing — Etching — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — **Coloring** — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Tank Requirements

- Acidic resistance.
- Continuous circulation with filter.
- Heating by plate heat exchanger.
- Deionized water.

Packaging and Storage

- 25 kg plastic bag.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.



Liquid Stabilizer for Tin Sulfate Bath

SC-C01-L



Liquid stabilizer for tin sulfate coloring solutions.

Features

- Decreases consumption of tin sulfate in the coloring tank.
 - Contains a unique dispersant.
 - Prevents precipitation in the coloring tank.
 - Produces uniform colors.
 - Contains anti-oxidant agent.
 - Non-toxic and safe.
 - Environmentally friendly.
-

Production Sequence

Degreasing — Rinsing — Rinsing — Etching — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — **Coloring** — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Tank Requirements

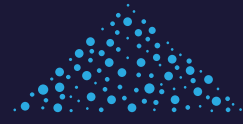
- Acidic resistance.
 - Heating by plate heat exchanger.
 - Deionized water.
 - Continuous circulation with filter.
-

Packaging and Storage

- 25 kg plastic drum.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Powder Stabilizer for Tin Sulfate Bath

SC-C01-P



Powder stabilizer for tin sulfate coloring solutions.

Features

- Decreases consumption of tin sulfate in the coloring tank.
 - Contains a unique dispersant.
 - Prevents precipitation in the coloring tank.
 - Produces uniform colors.
 - Contains anti-oxidant agent.
 - Non-toxic and safe.
 - Environmentally friendly.
-

Production Sequence

Degreasing — Rinsing — Rinsing — Etching — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — **Coloring** — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Tank Requirements

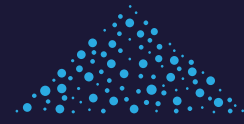
- Acidic resistance.
 - Heating by plate heat exchanger.
 - Deionized water.
 - Continuous circulation with filter.
-

Packaging and Storage

- 25 kg plastic bag.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Gold Dyeing Additive

SC-C03-P



Powder dyeing additive that gives a golden color.

Features

- Works by immersion only, no need for electricity.
- Excellent wear and corrosion resistance.
- Suitable for architectural aluminium profiles.
- Stable color over time.
- Suitable for outdoor use.

Production Sequence

Degreasing — Rinsing — Rinsing — Etching — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — **Coloring** — Rinsing — Rinsing — Sealing — Rinsing — Rinsing

Tank Requirements

- Acidic resistance.
- 316 L stainless steel steam heating pipe.
- Deionized water.

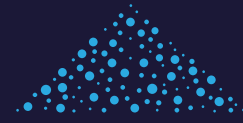
Packaging and Storage

- 25 kg plastic bag.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.



Cold Sealing Additive

SC-S01-P



Powder additive used to seal aluminium at room temperature after anodizing.

Features

- Works at room temperature, greatly reducing energy consumption.
- Works alone, no need for separate fluoride additions.
- Much faster than hot sealing.
- Provides good sealing quality and corrosion resistance.
- Can provide excellent sealing quality and corrosion resistance if followed by hot water treatment.
- Excellent resistance to impurities.
- Strong pH buffer capacity.
- No white layer formation after sealing.

Production Sequence

Degreasing — Rinsing — Rinsing — Etching — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — Coloring — Rinsing — Rinsing — **Sealing** — Rinsing — Rinsing

Tank Requirements

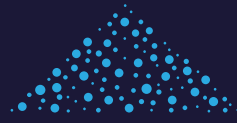
- Acidic resistance.
- 316 L stainless steel steam heating pipe.
- Light air agitation.
- Deionized water.
- Continuous circulation with filter.

Packaging and Storage

- 25 kg plastic bag.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Hot Sealing Additive

SC-S05-P



Powder additive used to seal aluminium profiles after anodizing.

Features

- Excellent sealing quality and corrosion resistance.
- No powdery surface after sealing.
- No color fading after sealing.
- Weight loss test value after sealing $\leq 15\text{mg}/\text{dm}^2$.
- High stability of bath solution.
- Strong resistance to contamination.
- Low consumption.
- Low cost.

Production Sequence

Degreasing — Rinsing — Rinsing — Etching — Rinsing — Rinsing — Desmutting — Rinsing — Rinsing — Anodizing — Rinsing — Rinsing — Coloring — Rinsing — Rinsing — **Sealing** — Rinsing — Rinsing

Tank Requirements

- Acidic resistance.
- 316 L stainless steel steam heating pipe.
- Light air agitation.
- Deionized water.
- Continuous circulation with filter.

Packaging and Storage

- 25 kg plastic bag.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Passivation Additive

SC-F01-L



Liquid passivation additive that is used prior to powder coating of aluminium.

Features

- Fast film-forming speed.
 - Low consumption.
 - Light golden yellow coating is formed to easily identify passivation quality.
 - Low precipitation.
 - Excellent corrosion resistance.
 - Excellent adhesion between aluminium and powder.
-

Production Sequence

Degreasing — Rinsing — Rinsing — **Passivation** — Rinsing — Rinsing

Tank Requirements

- Acidic resistance.
 - Light air agitation.
 - Deionized water.
-

Packaging and Storage

- 25 kg plastic drum.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.

Chromium-Free Passivation Additive SC-F02-L



Liquid passivation additive that does not contain chromium.
Used prior to powder coating of aluminium.

Features

- Does not contain chromium.
- Environmentally friendly.
- Fast film-forming speed.
- Low consumption.
- Low precipitation.
- Excellent corrosion resistance.
- Excellent adhesion between aluminium and powder.

Production Sequence

Degreasing — Rinsing — Rinsing — **Passivation** — Rinsing — Rinsing

Tank Requirements

- Acidic resistance.
- Air agitation.
- Deionized water.

Packaging and Storage

- 25 kg plastic drum.
- Store in a cool and dry place.
- Product shelf life is one year if stored properly.



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