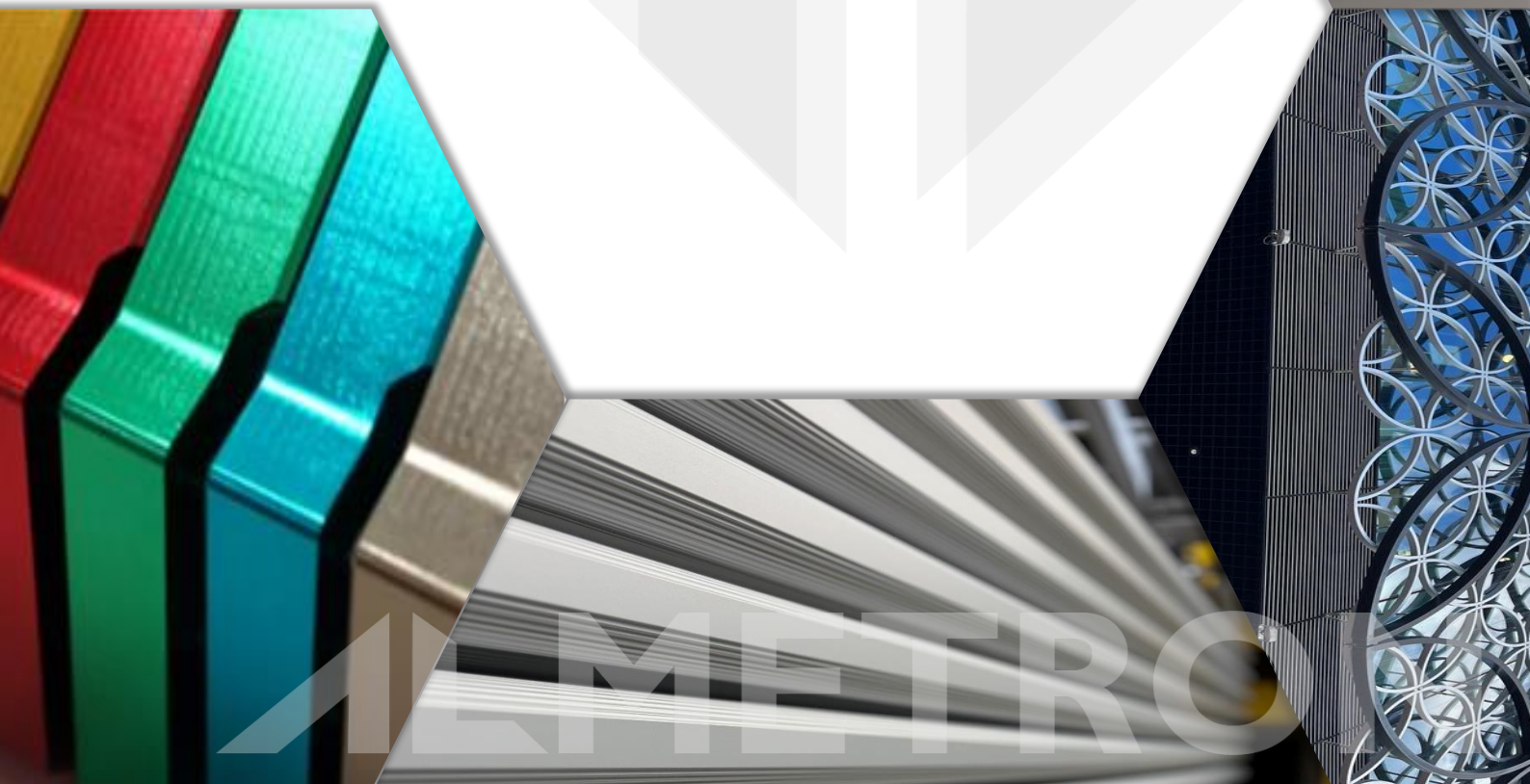


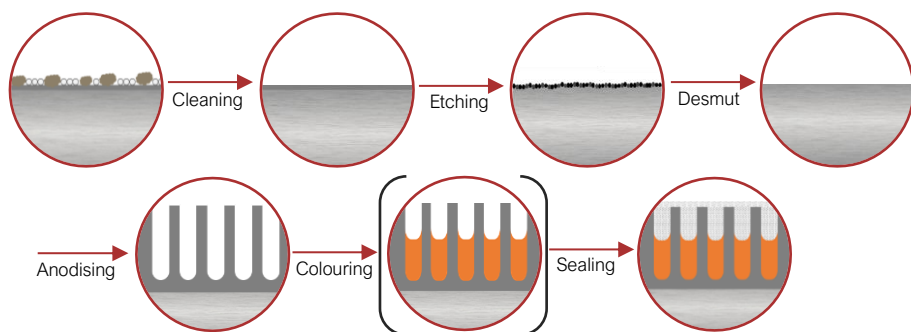
# ANODISING

## PRODUCTS

Almetron offers an extensive range of chemicals used in the anodising industry, both a standard range and bespoke products to meet the client's needs.



## INTRODUCTION



Almetron has been supplying market leading anodising chemicals to the aluminium industry for the past 40 years.

The anodising process involves several stages grouped into surface preparation, coating, colouring and sealing, this brochure describes each process together with the products we supply.

## PRODUCT RANGE

### SUREPREP CLEANERS

#### POWDER CLEANER

##### C40

Standard non-etching powder cleaner.

##### C44

High temperature powder cleaner for removal of difficult soils, particularly buffing compounds.

##### C50

Strong alkaline powder cleaner.

#### LIQUID CLEANER

##### LQ8

Medium duty liquid cleaner ideal for architectural profiles.

##### LQ18

Medium to heavy duty liquid cleaner designed for machined parts.

##### LQ196

Medium duty, low temperature operation liquid spray cleaner. Suitable for multi-metal.



## CAUSTIC ETCHES

### ETCH ADDITIVE

#### 88A

Etch additive to accelerate extrusion die stripping.

#### EA5

Etch additive for accelerating caustic soda etching bath.

#### EA9

Etch additive for accelerating etch rates and reducing spangling with caustic soda etch.

#### EA15

Premium etch additive for the best combination of economy and finish from caustic soda etching.

#### EA27

Premium etch additive for the best combination of economy and finish from caustic soda etching with environmentally and effluent friendly anti-foaming agents.

#### EA28

Premium etch additive for the best combination of economy and finish from caustic soda etching with rinsing agents.

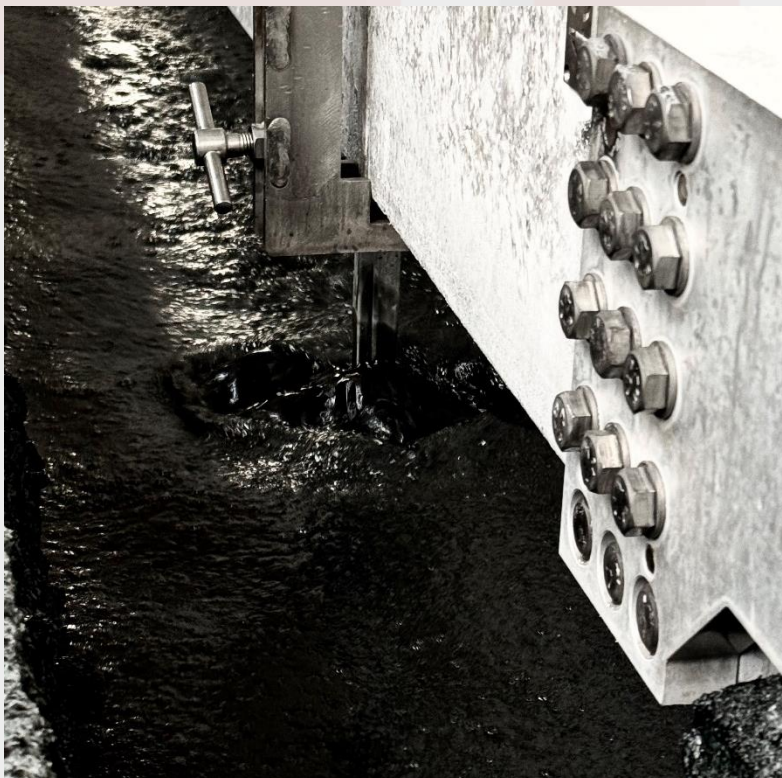
## CAUSTIC ETCH BLEND

Almetron provides Etch Additives for use in Caustic Soda based Etch baths or pre-blended caustic etches ready to use. Each of our additives is a unique blend, providing different characteristics in the etching solution helping to produce the desired surface finish.

Caustic Soda

+

Etch Additive



## CHEMICAL BRIGHTENER

### ANOBRITE RANGE

501 • 502 • 503  
Medium specular brightener without nitric acid.

### HIBRITE® RANGE

Light reflection



**601X2**  
Specular brightener supplied without nitric acid, fume suppressant, or anti-transfer additive.

**601X3**  
Specular brightener containing nitric acid and fume suppressant.

**601X5** • **601X11**  
Specular brightener without fume suppressant.

**601X6**  
Specular brightener containing fume suppressant and anti-transfer additive but supplied without nitric acid.

**601X9**  
Specular brightener containing nitric acid, fume suppressant and anti-transfer additive.

### ADDITIVE

**HiBrite Anti-Transfer Additive**  
Additive for HiBrite bath to reduce corrosion and pitting of aluminium surfaces.

Over 40 years we have developed and tested a broad range of Full Bright and Semi Bright solutions that offer an extensive range of finishes. We can also provide additives including Fume Suppressants and Anti-Transfer, depending upon the application and your requirements.

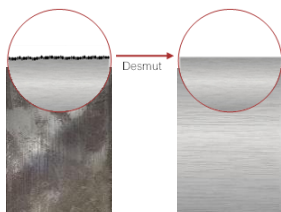
**CAUSTIC ETCH FINISH**  
*Matt Finish*

**ANOBRITE FINISH**  
*Semi Bright Finish*

**HIBRITE FINISH**  
*Full Bright Finish*

## DESMUTS

### DESMUT BLEND



#### Desmut D6

Standard mixed acid based desmut.

#### Desmut D20

A **mixed** acids desmut designed to remove copper films formed during specular brightening.

#### Desmut D70

A mixed acid desmut, containing **fluoride** to remove smut from the surface especially material with silicon content.

#### Desmut D17

Mixed acid based desmut with oxidant.

#### Desmut D21

A **nitric** acid based desmut designed to remove copper films formed during specular brightening.

Almetron acknowledges that most etching processes result in residual metallic smuts remaining. We have various low impact technologies available to tackle this. Our professional, experienced laboratory team can also formulate bespoke blends to suit our clients' specific requirements including formulas to use up spent sulphuric acid and convert into desmut blends.

### DESMUT ADDITIVES

#### Desmut Additive D17

An additive for use with spent anodising sulphuric.

#### Desmut Additive D24

An additive with oxidant used in both nitric acid and sulphuric acid desmuts.

## ANODISER CHEMICALS

#### Sulphuric acid

Various concentrations (10% to 96% w/w).

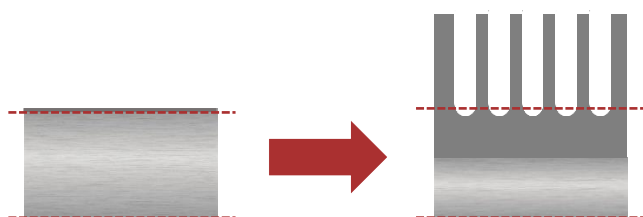
#### FS20 Fume Suppressant

Additive for fume and mist control from anodising process.

#### Anogex 35

Additive used with sulphuric acid anodising process to produce hard anodic films for various applications.

### ANODISING PROCESS



The anodising step is an electrolytic process used to produce a dense and uniform corrosion resistant oxide coating on aluminium and its alloys. Typically, the parts are immersed in an electrolytic solution (commonly sulphuric acid) these parts act as the anode alongside a cathode based on the tank itself. A constant current is then passed through the medium, and the reaction between the electrolyte and the surface of the aluminium creates an oxide layer, in general, immersion time controls the thickness, temperature the hardness.

## COLOURING

### ELECTROLYTIC COLOURING

#### Surefast SN20

Electrocolour system based on tin salts.

+ SN Powder  
Tin salts

+ SN STAB  
Stabiliser pack



#### Surefast CU75

Electrocolour system based on copper salts.

+ CU Powder  
Copper salts

+ CU STAB  
Stabiliser pack



### INORGANIC DYESTUFF

#### Surefast Gold

Inorganic gold colouring system



### ORGANIC DYESTUFF

#### Suretone and Surefast Range

Suretone Blue

Suretone Fuchsia

Suretone Green

Suretone Orange

Suretone Olive Green

Suretone Red

Surefast Black AL-B

Surefast Black AL-H



Almetron offers all types of dye colour and can work with the client to find a customised shade before manufacture.

## FIXING AGENT

#### Sureseal HS1250

A fixing agent to reduce colour bleed out after dyeing. Particularly useful after red or green dyes.

## SEALS

### PRE-SEAL

#### EHS80

Enhanced hydrothermal sealing solution completely free of any heavy metals and environmentally friendly.

#### PROPERTIES

- ✓ Environmentally friendly product completely free of any heavy metals
- ✓ Provide exceptionally high standard of rinsing ahead of sealing
- ✓ Substantially accelerates the formation of boehmite during subsequent sealing

### COLD SEALS

#### Sureseal CS100

Cold sealing process based on nickel salts supplied in liquid form.

#### Sureseal CS100M

Ready to use cold sealing process based on nickel salts supplied in liquid form.

#### Sureseal CS200

Cold sealing process based on nickel salts, designed to be fully compliant with Qualanod standards. Supplied in powder form.

### MID-TEMPERATURE SEAL

#### Sureseal 8596MT

Sealing additive designed to operate at lower temperatures (85-96°C) and minimised smut formation on the work during sealing.

#### PROPERTIES

- ✓ Lower temperature sealing
- ✓ Significant energy savings compared to conventional hot sealing
- ✓ Inhibited seal smut formation on the surface
- ✓ Extended life of associated equipment



### HOT SEALS

#### OxySeal HS99

#### OxySeal HS100

#### OxySeal HS994

#### OxySeal HS997

Hot seal bath additive designed to minimise smut formation on the work during sealing and buffer the pH of the bath.

Almetron provide a range of seals which include Cold Seals, Mid-Temperature Seal and Hot Seals.

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# ALMETRON

*Perfecting Chemistry,  
Creating Solutions*

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