

BROLLY ALUMINIUM FINISHING LTD

WHAT IS ANODISING?

Anti-corrosive aluminium treatment at a glance

Anodising is a surface treatment process using electricity, acid and water to increase the thickness of the natural oxide layer on the surface of aluminium parts.



A BIT OF SCIENCE

- The part is attached to a jig
- The jigged part is submersed in the acid/water solution
- A direct current is applied to the jig making the aluminium part positively charged
- Cathodes in the tank create a negatively charged solution
- The aluminium part combines with the negatively charged oxygen ions to thicken the aluminium oxide coating.

STEPS TO ANODISE ALUMINIUM

HOT CLEAN

The parts are cleaned to remove any excess grease, oil, machining debris etc.

ANODISE

The parts are submerged into a tank to be treated to bespoke customer specifications. Treatment time is based on the anodising thickness required.

DYE

The aluminium oxide coating is porous and allows cosmetic dyes to be absorbed

SEAL

The parts are dipped into a tank to seal the porous aluminium oxide surface creating a smooth, hard surface finish



BENEFITS OF ANODISING



Natural Finishing

Clear anodising and bright anodising produce a natural asethic product

Insulatio

Anodising will stop the ability of aluminium to conduct electricity



Anti-Corrosive Protection

Anodised aluminium had a hard durable surface that will resist rust and corrosion for longer than untreated parts

Scratch and Abrasion Protection

Anodised aluminium with its aluminium oxide coating provides a much hardier surface than raw aluminium. Perfect for working environments.



Bespoke Cosmetic Finishing

Anodising aluminium lets us get creative with metal. There are various colours, textures and styles we can create.

