

Anodised Aluminium Barcode Labels

Graffiti, Fade, Weather, Scratch, Solvent, Salt and Temperature resistant, Designed for extreme environments

Anodising is the electrically induced oxidation of the surface of aluminium in an acidic solution. The anodised layer is greatly increased in thickness over that of natural oxidation. By controlling temperature, current, voltage and concentration the thickness of the oxide coating may be accurately controlled to give a high degree of protection against the atmospheric conditions prevailing in our environment.

Colour anodised aluminium in building and architectural applications has a proven track record of resistance to outdoor exposure in excess of 50 years.

Using anodised aluminium, as the base for multi-coloured products opens up enormous possibilities for applications where paper and board are too frail and easily damaged, or where surface printing on tin, steel, plastic and conventional aluminium is subject to image erosion.

A honeycomb like structure is formed on the anodised aluminium surface. It is into a hole in the structure that the dye of the process is absorbed, causing the coating to become coloured.

The hole on is then sealed in a different acid solution. The application of controlled heat forms transparent crystals of a different form of aluminium oxide over the previously open top cell. Dye is now trapped inside the cell, isolated from the atmosphere and therefor permanent. Dyes, not material affected by ultra violet light are used in the process. The oxide coating is very hard and corrosion resistant, perfect for a sign or similar product that requires excellent durability.

So contact us on (08) 9227 0088 today

Specifications

Solvent Immersion

The Image cannot be affected by solvent.

Salt Spray

According to ASTM B117-85 duration 1000 hours, No deterioration.

Chemical Resistance

All Images receive 700 hours of immersion in each of the following chemicals with no effect:

- Mils-S3136 Hydrocarbon Fluid
- Mils-1-5161-Turbine and Jet Engine Fuel
- Kerosene
- Skydroll
- Methyl Ethylketone
- Ethyl Acetate
- Xylol; Heptane
- Ethyl Alcohol
- Mil-P-215631

U.S.A

- U.S.A Military Specifications A8625 type 11-P4514C-P514D
- Federal Standards P455B type 11
- And all standards and specifications mentioned in the above

