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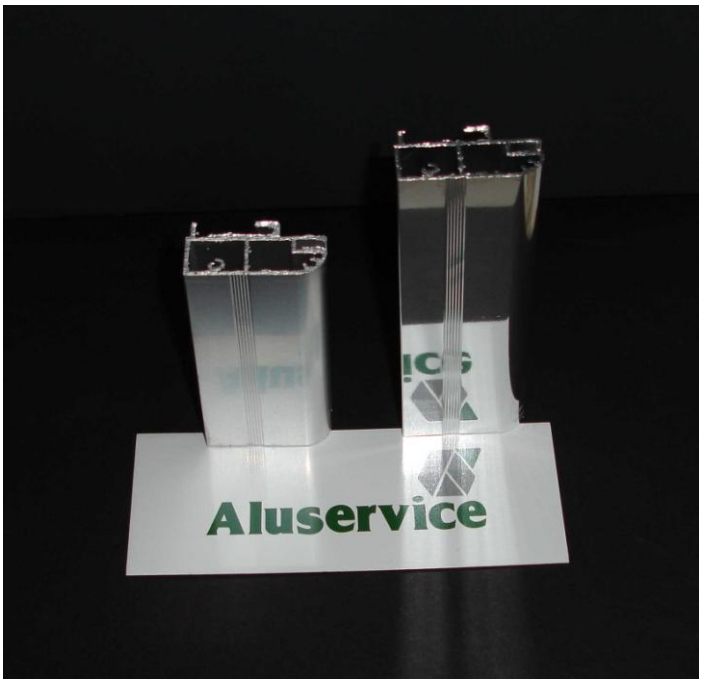
ALUBRILL-94

CHROME FREE ELECTROLYTIC BRIGHTENING



Description:

AluBrill-94 is an innovative and ecological product developed for electrolytic brightening of aluminium and stainless steel. Although it is enviromently friendly (only normal air suction on the tank is needed) the brightness level is absolutely comparable to other products containing chromium.
The PP or PVDF tank is equipped with lead electrodes with the largest surface possible.
A cooling and heating system is also required. It can be done with 316L stainless steel heating/cooling coils. To avoid crystallisation of the product the storage temperature should be never less than +5°C

Codice Fiscale e Reg. Imp. 06860710158 **R.E.A. MI** - 1125277 Capitale sociale € 93.600,00 **P. IVA** 06860710158

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Running conditions:

The anodic bar has a mechanical movement (2-8 cm/sec.) to remove the gas developed during the reaction, which creates opaque stains on the surface: alternatively the liquid is moved with an appropriately designed eduction system.
The rectifier has 20V tension and a current density at its highest of about 10 A/dm^2. A 4000 Amp. brightens 4 m^2 of aluminium as long as the surface/tank volume ratio remains under 1 (0.9 m^2 aluminium surface, 1000 litres volume). This ratio, however, can be increased depending upon the load shape.
Titanium jigs can be used but one must bear in mind that high current density can cause "burnings" on the surface.
The temperature of the bath is between 65-75°C and immersion time goes from a few seconds to a few minutes depending on the alloy purity and chemical conditions of the bath.
The surface is previously dipped in a degreasing solution so that all the dirt and greases, which would contaminate the brightening solution, are removed.

The bath level should be restored daily by adding **AluBrill-94**, this allows to maintain the correct parameters of the solution. Water should be added only when the density exceeds 1.700 kg/l.

Preparation of the bath:

Fill the tank with **AluBrill-94** until the required level is reached.

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