

high-tech galvanics



A surface
technologies
aalberts

next level electroplating

Aalberts surface technologies offers professional, modern and reliable electroplating processes with many kinds of metal finishes and multi-layer systems. With our solutions we strive to create exactly the properties that your parts need. Together with our customers and partners in numerous engineering fields we bring technology forward and exceed the limits of surface

properties. As for materials which are difficult to electroplate, we offer various pretreatments and coating combinations. Thus, we prevent embrittlement in high-strength steels. Steel alloys with high copper, lead or manganese contents require appropriate preliminary treatments in order to allow the electroplated coating to unfold its full durability and protective effect.

H₂ technology solutions

Nickel Plating: Alkaline water electrolyzers rely on the long life cycle of nickel plated stacks. Aalberts surface technologies offers a variance of Nickel platings such as Electroless nickel-phosphorus (Durni-Coat®) and Sulfamate Nickel.

Silver Plating: Aalberts surface technologies offers silver plating for electrical components due to its exceptional conductivity and heat resistance.



Example hydrogen car

Tin-Nickel Plating: Aalberts surface technologies offers this Tin-Nickel (65%-35%) metal alloy layer, which is a high corrosion-resistant layer (especially

against halogenides like Chlorides), in both acidic and alkaline environments with a low contact resistance.

| main process | max. dimension in mm | max. weight in kg |
|--------------------|----------------------|-------------------|
| Sulfamate Nickel | 2.800 x 1.200 x 500 | 1.000 |
| Silver and Tin | 1.900 x 850 x 500 | 500 |
| Tin-Nickel Plating | 650 x 800 x 330 | 200 |
| DURNI-COAT® | 2100 x 1000 x 500 | 1000 |

Please do not hesitate to contact us if you need advice!

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