Title (en)
ZR-/TI-CONTAINING PHOSPHATING SOLUTION FOR PASSIVATION OF METAL COMPOSITE SURFACES

Title (de)
ZR-/TI-HALTIGE PHOSPHATIERLÖSUNG ZUR PASSIVIERUNG VON METALLVERBUNDOBERFLÄCHEN

Title (fr)
SOLUTION DE PHOSPHATAGE À BASE DE ZR/TI UTILISÉE POUR PASSIVER DES SURFACES COMPOSITES MÉTALLIQUES

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Application
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Abstract (en)
[origin: CA2669042A1] The invention relates to an aqueous composition and a method for corrosio n protective conversion treatment of metal surfaces. The aqueous composition is particularly suitable for the treatment of various metal materials, join ed in composite structures, amongst others of steel or galvanised steel or t he alloys thereof and any of combination of said materials, the composite st ructure being at least partly made from aluminium or alloys thereof. Accordi ng to the invention, the aqueous composition based on a phosphating solution contains in addition to water-soluble compounds of zirconium and titanium a n amount of free fluoride in a ratio that permits the phosphatising of the s teel and galvanised steel or the alloys thereof and also a low etching rate of the aluminium surface with concomitant passivation of the aluminium surfa ce. The metal materials, components and composite structures subjected to th e conversion treatment according to the invention are applicable in automobi le chassis production, in ship building, in civil engineering and the produc tion of white goods.

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