

Title (en)
TWO-STAGE CONVERSION TREATMENT

Title (de)
ZWEISTUFIGE KONVERSIONSBEHANDLUNG

Title (fr)
TRAITEMENT DE CONVERSION EN DEUX ETAPES

Publication
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Application
EP 04791077 A 20041030

Priority
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Abstract (en)
[origin: WO2005061761A1] The invention relates to a method for the two-stage corrosion prevention treatment of metallic surfaces. According to the inventive method, (a) in a first step, the metallic surface is brought into contact with a chromium-free first aqueous solution having a pH value of between 1.5 and 5, and containing a total of at least 0.01 g/l and up to 10 g/l Ti and/or Si ions, and at least a quantity of fluoride such that the atomic ratio Ti to F and/or Zr to F and/or Si to F is between 1: 1 and 1: 6, and then (b) in a second step, the metallic surface is brought into contact with a chromium-free second aqueous solution having a pH value between 1.5 and 5, containing a total of at least 0.01 g/l and up to 10 g/l Ti and/or Zr and/or Si ions, and at least a quantity of fluoride such that the atom ratio Ti to F and/or Zr to F and/or Si to F is between 1: 1 and 1: 6, and additionally containing such a quantity of soluble anions of oxoacids of molybdenum and/or wolfram in the oxidation stage VI, that the entire concentration of molybdenum and/or wolfram, calculated as MoO₄²⁻ and/or WO₄²⁻, is between 5 and 1500 mg/l.

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