

Title (en)

PROCESS FOR THE ANODIC OXIDATION OF ALUMINIUM AND ITS USE AS A SUPPORT MATERIAL FOR OFFSET PRINTING PLATES

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Application

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Priority

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Abstract (en)

[origin: ES8606539A1] In the process for the anodic oxidation of mechanically, chemically and/or electrochemically roughened aluminum or of one of its alloys, an aqueous electrolyte, which is free from H₂SO₄ and contains H₃PO₄ and Al⁺³ ions is used. The process parameters are: an electrolyte content of 25 g/l to 500 g/l of H₃PO₄ and at least 5 g/l of Al⁺³ ions, a treatment time of 5 seconds to 500 seconds, a current density of 1 A/dm² to 30 A/dm² and a temperature of 35 DEG C. to 95 DEG C. The Al⁺³ ion source in particular is a salt of aluminum having a phosphoroxo anion, such as AlPO₄. The material prepared in accordance with this invention is preferably employed as a support material for offset printing plates which carry a radiation-sensitive layer.

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