

Title (en)

PROCESS FOR THE PHOSPHATING OF METAL SURFACES

Publication

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Application

EP 86901388 A 19860220

Priority

ES 541129 A 19850222

Abstract (en)

[origin: WO8604931A1] Process for the phosphating of metal surfaces, particularly iron and steel, with aqueous, acid phosphating solutions. Along with zinc and phosphate ions, the solutions contain an activator combination of alkali metal bromate and m-nitrobenzolsulphonate. This new process is particularly well suited for the pretreatment of metal surfaces prior to cathodic electrobath lacquering. The acid phosphating solutions meet the following conditions: a) zinc content 1,2 to 2 g/l; b) bromate content 0.5 to 1 g/l; c) m-nitrobenzolsulphonate 0.2 to 0.5 g/l; d) weight ratio phosphate: zinc = (7 to 20) : 1; e) weight ratio phosphate : bromate = (14 to 48) : 1; f) weight ratio zinc : bromate = (1.2 to 4) : 1; g) weight ratio bromate : m-nitrobenzolsulphonate = (1 to 5) : 1; h) number of points total acid 18 to 25; i) number of points free acid 0.5 to 1; g) temperature 35 to 40$^{\circ}\text{C}$.

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