

Title (en)

Method of producing a chromium-free conversion coating on a surface of an aluminium or aluminium alloy strip

Title (de)

Verfahren zur Herstellung von Chrom-frei Konversionsschicht auf einer Oberfläche von Aluminium- oder Aluminiumlegierungsband

Title (fr)

Procédé de production d'une couche de conversion sur une surface d'une bande d'aluminium ou d'alliage d'aluminium

Publication

EP 2532769 A1 20121212 (EN)

Application

EP 11004742 A 20110610

Priority

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Abstract (en)

In a method of producing an aluminium or aluminium alloy strip with a heat-seal lacquer on a first surface and an epoxide based stove lacquer on the second surface, a chromium-free conversion coating is produced on the first and second surface of the aluminium or aluminium alloy strip in a continuous production line before applying the hot seal lacquer and the stove lacquer, the chromium-free conversion coating is produced by (A) a no-rinse process by treatment with a solution of silanes in a polar organic solvent, or a no-rinse process by treatment with an aqueous solution of 5 to 10 wt.-% hexafluorotitanic acid (H_2TiF_6) and 2.5 to 5 wt.-% hexafluorozirconic acid (H_2ZrF_6), or (B) a rinse process by treatment with an aqueous solution of < 1 wt.-% diammonium dimolybdate $((NH_4)_2Mo_2O_7)$ and 5 to 10 wt.-% hexafluorozirconic acid (H_2ZrF_6).

IPC 8 full level

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Citation (applicant)

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