Title (en)

LITHOGRAPHIC SHEET MANUFACTURING WITH HIGH COLD ROLL PASS REDUCTION

Title (de)

LITHOBANDFERTIGUNG MIT HOHER KALTWALZSTICHABNAHME

Title (fr)

FABRICATION DE BANDE LITHOGRAPHIQUE AVEC UNE HAUTE RÉDUCTION PAR PASSE DE LAMINAGE A FROID

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Application

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Abstract (en)

[origin: WO2017182506A1] The invention relates to a method for producing an aluminum strip for lithographic printing plate carriers made of an aluminum alloy, wherein the aluminum alloy has the following alloy components in wt.%: 0.05 % ≤ Si ≤ 0.25 %, 0.2 % ≤ Fe ≤ 1 %, Cu max. 400 ppm, Mn ≤ 0.30 %, 0.10 % ≤ Mg ≤ 0.50 %, Cr ≤ 100 ppm, Zn ≤ 500 ppm, Ti < 0.030 %, residual Al, and maximally 0.03% of individual unavoidable impurities, in sum maximally 0.15%, said method having at least the following steps: - casting a rolling ingot from an aluminum alloy, - homogenizing the rolling ingot, - hot-rolling the rolling ingot to a final hot strip thickness, and - cold-rolling the hot strip to a final thickness, wherein the final thickness ranges between 0.1 mm and 0.5 mm after the cold-rolling process. The aim of the invention is to provide a method for producing an aluminum strip for lithographic printing plate carriers in order to produce aluminum strips for lithographic printing plate carriers while simultaneously allowing a reduction of costs for producing the printing plate carriers. This is achieved in that during the cold-rolling process of the hot strip, the product of the relative final thicknesses of the aluminum strip after the first and after the second cold-rolling pass of the aluminum strip is 15% to 24%.

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