

Title (en)

METHOD OF MANUFACTURING AN AL-MG-MN ALLOY PLATE PRODUCT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES AL-MG-MN-LEGIERUNGSPLETTENPRODUKTS

Title (fr)

PROCÉDÉ DE FABRICATION D'UN PRODUIT DE TYPE TÔLE EN ALLIAGE D'AL-MG-MN

Publication

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Application

EP 19722128 A 20190507

Priority

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- EP 2019061681 W 20190507

Abstract (en)

[origin: EP3569721A1] The invention relates to a method of manufacturing a rolled Al-Mg-Mn alloy plate product comprising the steps of: (a) providing a rolling feedstock material of an Al-Mg-Mn alloy having a composition comprising of, in wt.%, Mg 4.8-6.0%, Mn 0.3-1.25%, Zn up to 0.9%, Fe up to 0.4%, Si up to 0.3%, Cu up to 0.2%, Cr up to 0.25%, Zr up to 0.25%, Ti up to 0.25%, unavoidable impurities and balance aluminium; (b) heating the rolling feedstock to a temperature in a range of 480-550 °C; (c) hot-rolling of the heated rolling feedstock to a hot-rolled plate having a final gauge in a range of 3-15 mm, and wherein the hot-mill entry temperature is in a range of 400-550 °C, and the hot-mill exit temperature is in a range of 130-285 °C; and wherein the hot rolling of the rolling feedstock to final gauge is without cold rolling the rolling feedstock prior to the final gauge; (d) annealing of the hot-rolled plate at final gauge at an annealing temperature in a range of 300-550 °C; and (e) cooling to ambient temperature.

IPC 8 full level

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