

Title (en)

ALMGMN ALLOY PRODUCT WITH IMPROVED CORROSION RESISTANCE

Title (de)

ALMGMN-LEGIERUNGSPRODUKT MIT VERBESSERTER KORROSIONSBESTÄNDIGKEIT

Title (fr)

PRODUIT EN ALLIAGE ALMGMN A TENUE À LA CORROSION AMÉLIORÉE

Publication

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Application

EP 19790635 A 20190909

Priority

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Abstract (en)

[origin: WO2020053507A1] The invention relates to a method for manufacturing an aluminium alloy sheet, wherein an aluminium alloy is prepared with the following composition, in wt%: Mg: 4.0 - 5.2, Mn: 0.40 - 1.0, Zn: 0.15 - 0.40, at least one element selected from Ti, Cr, Cu and Zr, the content of the element, if selected, being 0.01 - 0.15 for Ti, 0.05 - 0.25 for Cr, 0.02 - 0.25 for Cu, 0.05 - 0.25 for Zr, Fe: < 0.40, Si: < 0.40, other elements or impurities < 0.05 each and < 0.15 in total, the remainder being aluminium. A rolling plate is cast by vertical semi-continuous casting, and said optionally homogenised plate is hot-rolled in two successive stages to obtain a sheet. The sheets obtained by the method according to the invention are advantageous, in particular for shipbuilding, since they demonstrate, after being exposed for 7 days to a temperature of 100°C, a weight loss of less than 15 mg/cm² during a corrosion test according to the ASTM G67 standard.

IPC 8 full level

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