

Title (en)

EXTRUDED PRODUCTS IN ALUMINIUM ALLOY AL-MN WITH IMPROVED MECHANICAL STRENGTH

Title (de)

EXTRUDIERTER PRODUKTE IN DER ALUMINIUMLEGIERUNG AL-MN MIT ERHÖHTER MECHANISCHER FESTIGKEIT

Title (fr)

PRODUITS FILÉS EN ALLIAGE D'ALUMINIUM AL-MN À RÉSISTANCE MÉCANIQUE AMÉLIORÉE

Publication

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Application

**EP 08835982 A 20080721**

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Abstract (en)

[origin: WO2009043993A1] The invention relates to an extruded product, in particular a tube, made from an alloy of composition (% by weight): Si: < 0.30, Fe: < 0.30, Cu: < 0.05, Mn: 0.5 - 1.2, Mg: 0.5 - 1.0, Zn: < 0.20, Cr: 0.10 - 0.30, Ti < 0.05, Zr < 0.05, Ni < 0.05, others <0.05 each and <0.15 in total, remainder being aluminium. The invention further relates to a method for producing extruded tubes with said composition, comprising casting a billet, optional homogenisation thereof, the extruding of a tube, the drawing of said tube, in one or more passes and continuous annealing at a temperature between 350 and 500°C with a temperature rise of less than 10 seconds. Said tubes are used to advantage in cabin air-conditioning systems for motor vehicles using CO2 as refrigerant gas.

IPC 8 full level

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