

Title (en)

EXTRUDED PRODUCT MADE FROM ALUMINIUM ALLOY AL-MG-SI WITH IMPROVED RESISTANCE TO CORROSION

Title (de)

AUS EINER AL-MG-SI-LEGIERUNG HERGESTELLTES EXTRUDIERTES PRODUKT MIT ERHÖHTER KORROSIONSRÉSISTENZ

Title (fr)

PRODUIT FILE EN ALLIAGE D'ALUMINIUM AL-MG-SI A RESISTANCE A LA CORROSION AMELIOREE

Publication

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Application

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Abstract (en)

[origin: WO2009043992A1] The invention relates to an extruded product, particularly a drawn tube made from an alloy of the 6XXX series with the following composition (% by weight) : Mg: 0.4 - 0.7, Si: 0.4 - 0.7, Fe: 0.1 - 0.3, Zn: 0.16 - 0.3, Ti: 0.12 - 0.3, Mn < 0.10, Cu < 0.05, Cr < 0.05, Ni < 0.05, others <0.05 each and <0.15 in total, remainder being aluminium, in which the ratio Si / Mg is between 0.9 and 1.3. Said product offers an advantageous combination of good mechanical properties at operating temperatures for vehicle air-conditioning systems using CO₂ as refrigerant fluid and high resistance to perforating corrosion necessary for extended operating life without leaks. Said tubes are advantageously used for cabin air-conditioning systems in motor vehicles using CO₂ as refrigerant gas.

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