

Title (en)

AL-MG ALLOY SHEET OR STRIP FOR THE PRODUCTION OF BENT PARTS HAVING A SMALL BEND RADIUS

Title (de)

BLECH ODER BAND AUS AL-MG-LEGIERUNG ZUR HERSTELLUNG VON GEBOGENEN TEILEN MIT KLEINEM BIEGERADIUS

Title (fr)

TOLE OU BANDE EN ALLIAGE AL-MG POUR LA FABRICATION DE PIECES PLIEES A FAIBLE RAYON DE PLIAGE

Publication

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Application

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Abstract (en)

[origin: WO03074747A1] The invention relates to an aluminium alloy sheet or strip with a thickness of between 1 and 5 mm which is intended for the production of stamped and bent parts having a small bend radius, the composition (% by weight) of said alloy comprising: Si<0.4, Fe<0.4, Cu<0.4, Mn + Cr:0.3-0.7, Mg:4-5.5, Zn<1, other elements <0.05 each and <0.15 in total, and the remainder aluminium. Moreover, the inventive sheet or strip presents the following properties: an elastic limit R_{0.2} in direction T>215 MPa, elongation A₈₀>15 % and a difference R_m - R_{0.2}>80 MPa. Said sheets and strips are used, for example, for the production of parts for motor vehicles, such as reinforcements for openable panels or jacks.

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