

Title (en)

ALUMINIUM ALLOY FOR CUPPING, CONTAINING SILICON, MAGNESIUM AND COPPER

Publication

**EP 0375572 B1 19930623 (FR)**

Application

**EP 89420499 A 19891219**

Priority

FR 8817621 A 19881221

Abstract (en)

[origin: EP0375572A1] The invention relates to an Al alloy for stamping, essentially containing Si, Mg and Cu, and to its process of manufacture. This alloy comprises (in % by weight) contents of Mg and Si which are within a polygon ABCDE having the following coordinates: <IMAGE> the copper content being between 0.5 and 0.8%, the contents of the elements Cr and Zr being less than 0.2% each, the Mn content being  $\leq 0.3\%$ , the Fe content being  $\leq 0.35\%$  and the content of the other elements being individually  $\leq 0.05\%$ , and in total  $\leq 0.15\%$ , the remainder being Al. The range of fabrication methods comprises semi-continuous or continuous ingot casting, optional homogenisation, hot transformation ending in the range 270-320 DEG C, optional cold transformation, complete dissolution, shaping by stamping, folding, roll bending etc., and annealing. This alloy is principally employed in panels for automobile bodywork. <IMAGE>

IPC 1-7

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IPC 8 full level

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Cited by

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