

Title (en)

ALUMINIUM ALLOYS WITH A HIGH LITHIUM AND SILICON CONTENT, AND PROCESS FOR THEIR MANUFACTURE

Publication

**EP 0208631 B1 19890802 (FR)**

Application

**EP 86420166 A 19860625**

Priority

FR 8510375 A 19850628

Abstract (en)

[origin: ES2000175A6] The invention concerns Al-base alloys with substantial proportions of Li and Si, containing, by weight: from 3.6 to 8% Li from 5 to 14% Si from 0 to 1% of each of the following optional elements: Fe, Co, Ni, Cr, Mn, Zr, V, Ti, Nb, Mo, O<sub>2</sub>, Sc, and from 0 to 2% of each of the optional elements Cu, Mg and/or Zn, the total amount of the optional elements being less than 5%, and the balance being Al and impurities, each impurity  $\leq 0.05\%$ , with total impurities  $\leq 0.15\%$ . The products are obtained by rapid solidification processes and contain from 15 to 60% by volume of phase T (Al, Si, Li), in the form of particles of from 0.01 to 10  $\mu\text{m}$ .

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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