

Title (en)

ALUMINIUM ALLOY FOR COMPONENT WITH HIGH HOT PROCESS MECHANICAL STRENGTH

Title (de)

ALUMINIUMLEGIERUNG FÜR KOMPONENTEN MIT HOHER MECHANISCHER FESTIGKEIT BEI HEISSVERFAHREN

Title (fr)

ALLIAGE D'ALUMINIUM POUR PIECE A HAUTE RESISTANCE MECANIQUE A CHAUD

Publication

EP 1815036 A2 20070808 (FR)

Application

EP 05820753 A 20051123

Priority

- FR 2005002909 W 20051123
- FR 0412579 A 20041126

Abstract (en)

[origin: WO2006056686A2] The invention concerns an aluminium alloy for a component having to exhibit high hot process mechanical resistance in the 230-430 °C temperature range consisting (in wt. %) of: Mg: < 0.5; Si: 8.0 - 13; Cu: 4.0 9.0; Ni: 1.0 4.0; Fe: < 1.0; Mn: < 1.0; Zn: < 1.0; V: < 0.3; Ti < 0.3; Zr < 0.05; P: 0.001 0.05; other elements < 0.15 each and < 0.30 in total, the rest being aluminium. More particularly, the invention concerns alloys for internal combustion engine pistons.

IPC 8 full level

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Citation (search report)

See references of WO 2006056686A2

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