

Title (en)

High strength aluminium fin material for brazing

Title (de)

Hochfeste Aluminiumlegierung für Kühlrippen zum Löten

Title (fr)

Alliage d'aluminium à haute résistance pour des ailettes pour brasage

Publication

EP 1435397 B1 20050914 (EN)

Application

EP 03078132 A 20031007

Priority

SE 0203009 A 20021014

Abstract (en)

[origin: EP1435397A1] The invention refers to an aluminium alloy, a clad or unclad material for brazed products containing said alloy as a core, as well as a method of producing materials to be used in brazed products from said alloy. The material is suitable for controlled atmosphere brazing (CAB) using fluxes that manage higher Mg levels in the materials. The alloy is intended as a fin-stock material for brazed products, such as heat exchangers. <??>The alloy comprises 0.5 - 1.0 wt-% silicon, 0.25 - 0.6 wt-% magnesium, 0.3 - 0.7 wt-% manganese, and 0.05 - 0.25 wt-% zirconium, and optionally up to 4 % Zn, the balance consisting of aluminium and unavoidable impurities. <??>The method for producing the material comprises the steps of subjecting said alloy to a casting process and subjecting the cast alloy to hot rolling and a cold rolling process, possibly followed by an annealing process.

IPC 1-7

C22C 21/02; **C22F 1/05**

IPC 8 full level

C22C 21/00 (2006.01); **C22C 21/02** (2006.01); **C22C 21/04** (2006.01); **C22C 21/08** (2006.01); **C22F 1/04** (2006.01); **C22F 1/047** (2006.01); **C22F 1/05** (2006.01)

IPC 8 main group level

C22C (2006.01)

CPC (source: EP US)

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