

Title (en)

METHOD FOR MANUFACTURING A BRAZABLE ALUMINIUM ALLOY.

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER HARTLÖTBAREN ALUMINIUMLEGIERUNG.

Title (fr)

PROCEDE DE FABRICATION D'UN ALLIAGE D'ALUMINIUM BRASABLE.

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Application

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Abstract (en)

[origin: FR2489845A1] Brazable aluminium alloys, particularly those intended for the manufacturing of heavy machinery. The alloy according to the invention contains in% by weight: Fe: 0.10 to 0.7; Ni: 0.40 to 1.0; Mn: 1.00 to 1.5; Cr0.5; Si: 0.20 to 0.5; Zr0.4; Cu: 0.20 to 0.5; Ti: 0.01 to 0.1; Mg0.5; V0.4; others, each 0.05; total0.15; The balance being aluminium. The production method comprises preferably a homogenization in two steps: (a) in the temperature range from 590°C to 610°C during 2 to 36 hours; (b) in the temperature range from 450°C to 500°C during 30 minutes to 24 hours. The alloy is mainly used for manufacturing large heat exchangers.

Abstract (fr)

L'invention se rapporte aux alliages d'aluminium brasables en particulier a ceux destines a la fabrication de gros appareillages. L'alliage suivant l'invention contient en poids%: Fe 0,10 a 0,7; Ni 0,40 a 1,0; Mn 1,00 a 1,5; Cr (Alpha) 0,5; Si 0,20 a 0,5; Zr (Alpha) 0,4; Cu 0,20 a 0,5; Ti 0,01 a 0,1; Mg (Alpha) 0,5; V (Alpha) 0,4 autres chacun (Alpha) 0,05; total (Alpha) 0,15, reste aluminium. Le procede de fabrication comporte, de preference, une homogeneisation en deux stades. a) dans le domaine de temperature 590 C-610 C pendant 2 a 36 heures b) dans le domaine de temperature 450 C-550 C pendant 30 minutes a 24 heures. L'alliage est principalement utilise a la fabrication de gros echangeurs de chaleur.

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