

Title (en)  
Process for making aluminium-iron alloy foil

Title (de)  
Verfahren zur Herstellung von Folie aus Aluminium-Eisen-Legierung

Title (fr)  
Procédé de fabrication de bandes très minces en alliage aluminium-fer

Publication  
**EP 1184474 B1 20060208 (FR)**

Application  
**EP 01420178 A 20010806**

Priority  
FR 0011025 A 20000829

Abstract (en)  
[origin: EP1184474A1] Aluminum alloy strips of thickness of at most 12 microns comprises continuous casting of a 2-10 mm thick Al alloy strip containing Si, Fe and Mn between casting cylinders, homogenizing at 450-620 degrees C for 8-40 hours, cold rolling, intermediate annealing at 200-400 degrees C for 8-15 hours, cold rolling to final thickness, and final annealing at 200-300 degrees C for at least 5 hours. Preferred Features: The aluminum alloy comprises (in weight %): 0.15-0.40 Si; 1.10-1.70 Fe; less than 0.02 Mg; 0.30-0.50 Mn; other elements less than 0.05 each and less than 0.15 in total; and the balance Al. The ultra-thin Al strip is preferably less than 9 microns thick. Fe content is less than 1.40 weight %. Intermediate annealing is preferably a single process carried out between the two rolling stages. Independent claims are given for: (a) an aluminum alloy strip manufactured by the above method and having a breaking strength (Rm) greater than 100 MPa, an elastic limit (R 0.2) greater than 80 MPa, elongation at breakage (A) greater than 3% and a porosity according to the standard EN 546-4 less than 10 holes/square dm; and (b) utilization of the strip for the fabrication of brick-type aseptic packaging for food.

IPC 8 full level  
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CPC (source: EP US)  
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