

Title (en)

COMBINATION PRESS ALUMINIUM ALLOY FIN MATERIAL FOR HEAT EXCHANGER, AND MANUFACTURING METHOD FOR SAME

Title (de)

KOMBINATIONSGEPRESSTER ALUMINIUMLEGIERUNGS-LAMELLENWERKSTOFF FÜR WÄRMETAUSCHER UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MATÉRIAU D'AILETTE POUR ÉCHANGEUR DE CHALEUR EN ALLIAGE D'ALUMINIUM TRAVAILLÉ À LA PRESSE MIXTE, ET SON PROCÉDÉ DE FABRICATION

Publication

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Application

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Priority

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Abstract (en)

An aluminium alloy fin material serves as a combination-pressable heat-changing fin material and exhibits excellent collar-cracking resistance as to less suffer from the occurrence of collar cracking during a forming process. The fin material is formed from an aluminium alloy. The aluminum alloy contains 0.010% to 0.4% in mass of Fe, with the remainder including Al and unavoidable impurities, and has an Al purity of 99.30% in mass or more. The fin material has a thickness of less than 0.115 mm and has an average subgrain size of 2.5 μm or less and a yield strength of 100 to 130 newtons per square millimeter. A number density of intermetallic compounds having a maximum length of greater than 3 μm in the fin material is not more than 2000 per square millimeter.

IPC 8 full level

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