

Title (en)
ALLIAGE ALUMINIUM CUIVRE LITHIUM À RÉSISTANCE AU CHOC AMÉLIORÉE

Title (de)
ALUMINIUM-KUPFER-LITHIUM-LEGIERUNG MIT VERBESSERTER SCHLAGZÄHIGKEIT

Title (fr)
ALLIAGE ALUMINIUM CUIVRE LITHIUM À RÉSISTANCE AU CHOC AMÉLIORÉE

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Abstract (en)
[origin: US2013269840A1] The invention relates to an extruded product made of an alloy containing aluminum comprising 4.2 wt % to 4.8 wt % of Cu, 0.9 wt % to 1.1 wt % of Li, 0.15 wt % to 0.25 wt % of Ag, 0.2 wt % to 0.6 wt % of Mg, 0.07 wt % to 0.15 wt % of Zr, 0.2 wt % to 0.6 wt % of Mn, 0.01 wt % to 0.15 wt % of Ti, a quantity of Zn less than 0.2 wt %, a quantity of Fe and Si less than or equal to 0.1 wt % each, and unavoidable impurities with a content less than or equal to 0.05 wt % each and 0.15 wt % in total. The profiles according to the invention are particularly useful as fuselage stiffeners or stringers, circumferential frames, wing stiffeners, floor beams or profiles, or seat tracks, notably owing to their improved properties in relation to those of known products, in particular in terms of energy absorption during an impact, static mechanical strength and corrosion resistance properties and their low density.

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