

Title (en)  
THIN METAL SHEET MADE FROM ALUMINIUM ALLOY WITH HIGH DUCTILITY

Title (de)  
DÜNNES METALLBLECH AUS EINER ALUMINIUMLEGIERUNG MIT HOHER DUKTILITÄT

Title (fr)  
TOLE MINCE EN ALLIAGE D'ALUMINIUM A GRANDE DUCTILITE

Publication  
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Application  
**EP 21806772 A 20211119**

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Abstract (en)  
[origin: WO2022112110A1] The invention relates to thin metal sheets with a substantially recrystallised microstructure, having a composition, in % by weight, of Mg: 0.65 - 0.85, Fe: 0.10 - 0.20, Si: 0.05 - 0.09, Mn:  $\leq$  0.03, Cu:  $\leq$  0.05, Cr:  $\leq$  0.02, Zn:  $<$ 0.10, Ti:  $\leq$  0.03, other elements or impurities  $<$  0.05 each and  $<$  0.15 in total, the balance being aluminium. The method for manufacturing the products according to the invention comprises casting an alloy with a composition according to the invention in the form of a rolling plate, reheating the plate, hot-rolling, cold-rolling and annealing. The thin metal sheets according to the invention are particularly used to produce workpieces which have a complex shape and which are shaped in three spatial dimensions, in particular by stamping.

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