

Title (en)

Aluminium alloy sheet for auto body sheet, method for manufacturing same and method for forming same

Title (de)

Aluminiumlegierungsblech für Autokarosserie, Verfahren zu ihrer Herstellung sowie Verfahren zu ihrer Verformung

Title (fr)

Tôle en alliage d'aluminium pour carrosseries d'automobiles, son procédé de fabrication et son procédé de formage

Publication

**EP 0690142 A1 19960103 (EN)**

Application

**EP 95401319 A 19950607**

Priority

JP 12781294 A 19940609

Abstract (en)

The sheet is provided as a material subjected to mill finish with an ordinary reduction roll and is equal in formability under low - viscosity lubrication condition to that of a conventional shot dull finish material. Specifically, there is provided an aluminum alloy sheet used for an auto body sheet and containing 2.0 to 8.0 wt. % of Mg, one or two or more elements selected from a group consisting of 1.5 wt. % or less of Fe, 1.0 wt. % or less of Mn, 0.3 wt. % or less of Cr and 0.3 wt. % or less of Zr and the remainder consisting of inevitable impurities and aluminum, wherein a surface layer in a former step is 70 to 300  $\mu\text{m}$  in recrystallized grain size, the surface layer in a final finish sheet is 10 to 50  $\mu\text{m}$  in recrystallized grain size and 0.5  $\mu\text{m}$  or less in surface roughness Ra (Ra  $\leq$  0.5  $\mu\text{m}$ ), and the surface roughness Ra in case of applying 10% of stretch is set to be 0.8  $\mu\text{m}$  or above (Ra  $\geq$  0.8  $\mu\text{m}$ ). A method for manufacturing such an aluminum alloy sheet and a method for forming such an aluminum alloy sheet are also disclosed. <MATH>

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**C22F 1/047**; **B21B 1/22**

IPC 8 full level

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Citation (search report)

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