

Title (en)

ALUMINIUM-SILICON-MAGNESIUM ALLOY HAVING IMPROVED DUCTILITY AND DEEP-DRAWING PROPERTIES, AND METHOD FOR PRODUCING SAME.

Title (de)

AL-SI-MG-LEGIERUNG MIT VERBESSERTER DEHNBARKEIT UND TIEFZIEHEIGENSCHAFTEN UND VERFAHREN ZU DEREN HERSTELLUNG.

Title (fr)

ALLIAGE DE TYPE ALUMINIUM-SILICON-MAGNESIUM A DUCTILITE ET EMBOUTISSABILITE AMELIOREES ET PROCEDE D'OBTENTION.

Publication

**EP 0679199 A1 19951102 (FR)**

Application

**EP 95901489 A 19941115**

Priority

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Abstract (en)

[origin: WO9514113A1] Aluminium-silicon-magnesium alloys having improved ductility and deep-drawing properties for use as sheet or strip, and a method for producing same, are disclosed. The sheet or strip is particularly suitable for deep-drawing and motor vehicle bodywork in particular. The claimed alloy has a chemical composition consisting of: 0.1-0.8 wt % Mn, 0.25-0.8 wt % Mg, 0.5-1.3 wt % Si, up to 0.9 wt % Cu, up to 0.5 wt % Fe, and other elements up to 0.5 wt % each and 0.15 in all, with the balance being Al. The sheet and strip are produced by casting, hot rolling under special reheating and rolling conditions, cold rolling, age-hardening, forming and curing of coatings, and optionally pre-tempering performed between quenching and age-hardening.

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Citation (search report)

See references of WO 9514113A1

Cited by

EP3967784A4; DE102005045340B4; FR3065013A1; US6267922B1; US11649536B2; US7491278B2; US11384418B2; WO2018185425A1; WO2006037588A1; WO2018206696A1

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