

Title (en)

6000 ALUMINUM EXTRUDATE EXCELLING IN PAINT-BAKING HARDENABILITY AND PROCESS FOR PRODUCING THE SAME

Title (de)

6000-ALUMINIUM-EXTRUDAT MIT HERVORRAGENDER LACKEINBRENNHÄRTBARKEIT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

EXTRUDAT D'ALUMINIUM 6000 EXCELLENT EN TERMES DE TREMPABILITE PAR CUISSON DE PEINTURE ET SON PROCEDE DE PRODUCTION

Publication

**EP 2006404 A4 20091216 (EN)**

Application

**EP 07741160 A 20070330**

Priority

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- JP 2006095881 A 20060330

Abstract (en)

[origin: EP2006404A1] This invention relates to a 6000-series aluminum extruded material containing magnesium (0.3% to 0.7% by mass), silicon (0.7% to 1.5% by mass), copper (0.35% or less by mass), iron (0.35% or less by mass), titanium (0.005% to 0.1% by mass), manganese (0.05% to 0.30% by mass), chrome (0.10% or less by mass), and zirconium (0.10% or less by mass) (provided that at least one transition element selected from the group consisting of manganese, chromium, and zirconium is contained in a total amount representing 0.05% to 0.40% by mass), with the balance comprising aluminum with inevitable impurities, such aluminium extruded material having a predetermined yield strength of 180 MPa or more with an increase of 60 MPa as a result of a thermal history corresponding to paint baking. Such 6000-series aluminium extruded profile is superior in paint-baking hardenability and thus the yield strength thereof can be secured to a level applicable to structural members of automobiles and the like with the use of a thermal history corresponding to paint baking.

IPC 8 full level

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Citation (search report)

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