

Title (en)
METHOD OF MANUFACTURING AN ALMGSC-SERIES ALLOY PRODUCT

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES LEGIERUNGSPRODUKTS DER ALMGSC-SERIE

Title (fr)
PROCÉDÉ DE FABRICATION D'UN PRODUITS EN ALLIAGE DE LA SÉRIE ALMGSC

Publication
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Abstract (en)
[origin: EP3683327A1] The invention relates to a method of manufacturing an AlMgSc-series aluminium alloy product, the method comprising the step of cooling said AlMgSc-series aluminium alloy product from a final annealing temperature to below 150 °C, wherein the cooling in a first temperature range of about 250 °C to about 200 °C is at an equivalent time of more than 4 hours, and wherein the cooling in a second temperature range from about 200 °C to about 150 °C is at an equivalent time of more than 0.2 hours, and wherein the equivalent time (t_{eq}) is defined as $t_{eq} = \int_{T_{ref}}^{T} \exp\left(-\frac{16000}{T} + \frac{16000}{T_{ref}}\right) dt$ wherein T (in degrees Kelvin) indicates the temperature of the heat treatment, which changes over the time t (in hours) and T_{ref} (in degrees Kelvin) is the reference temperature selected at 473K.

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C22F 1/047 (2006.01); **C22C 21/06** (2006.01)

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Cited by
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