

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

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Application
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Priority
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Abstract (en)
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 $t_{eq} = \int \exp(-16000/T) dt - 16000/T_{ref}$ 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.

IPC 8 full level
C22F 1/047 (2006.01); **C22C 21/06** (2006.01)

CPC (source: EP KR US)
B22D 21/04 (2013.01 - KR US); **C22C 21/06** (2013.01 - EP KR US); **C22F 1/047** (2013.01 - EP KR US); **B21B 2003/001** (2013.01 - KR); **B21B 2003/006** (2013.01 - KR)

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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