

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  
**EP 3683327 B1 20210505 (EN)**

Application  
**EP 19152342 A 20190117**

Priority  
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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  $t_{eq} = \int_{T_{ref}}^{T} \exp(-16000/T) dt$  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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Cited by  
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