

Title (en)
7XXX WROUGHT PRODUCTS WITH IMPROVED COMPROMISE OF TENSILE AND TOUGHNESS PROPERTIES AND METHOD FOR PRODUCING

Title (de)
7XXX-LEGIERUNG MIT VERBESSERTEN ZUG- UND ZÄHIGKEITSEIGENSCHAFTEN UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
PRODUITS ECROUIS EN ALLIAGE 7XXX AVEC UN COMPROMIS AMÉLIORÉ DE PROPRIÉTÉS DE TRACTION ET DE TÉNACITÉ ET PROCÉDÉ DE PRODUCTION

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Application
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Abstract (en)
The present invention relates to wrought 7xxx aluminum alloy product comprising in weight % Zn 6.7 - 7.4, Mg 1.35 - 1.75, Cu 1.85 - 2.35, Zr 0.04 - 0.14, Mn 0 - 0.5, Ti 0 - 0.15, V 0 - 0.15, Cr 0 - 0.25, Fe ≤0.05, Si≤0.05 with a Fe+Si ≤ 0.08 % and artificially aged wherein the total equivalent aging time t(eq) at 155°C is comprised from 24 hours to 45 hours which permits to optimize the compromise between tensile yield strength and toughness with improved cryogenic fracture toughness and fatigue resistance in corrosive environment.

IPC 8 full level
C22C 21/18 (2006.01); **C22F 1/053** (2006.01)

CPC (source: EP)
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Citation (applicant)

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