

Title (en)

CASTING PROCESS OF ALUMINIUM ALLOYS

Title (de)

GIESSVERFAHREN VON ALUMINIUMLEGIERUNGEN

Title (fr)

PROCÉDÉ DE COULÉE POUR ALLIAGES D'ALUMINIUM

Publication

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Application

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Abstract (en)

[origin: US2010212855A1] The invention relates to a casting process for an aluminum alloy containing at least about 0.1% of Mg and/or at least about 0.1% of Li in which a liquid surface of said alloy is put into contact with a dried gas including at least about 2% of oxygen by volume and with a water partial pressure lower than about 150 Pa throughout most of the solidification process. The invention makes it possible to cast the most oxidable aluminum alloys, in particular aluminum alloys containing magnesium and/or lithium, without using additives such as beryllium and/or calcium and without using expensive devices and/or gases, to obtain cast ingots free from surface defects and pollution, in complete safety.

IPC 8 full level

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