

Title (en)

METHOD FOR PRODUCTION OF AN OXIDATION INHIBITING TITANIUM CASTING MOULD

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER OXIDATIONSCHEMMENDEN TITANGUSSFORM

Title (fr)

PROCEDE DE PRODUCTION D'UN MOULE POUR TITANE COULE, PRESENTANT UNE PROPRIETE D'INHIBITION D'OXYDATION

Publication

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Application

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Abstract (en)

[origin: WO0162413A2] The invention relates to a method for production of a lost mould for titanium casting, made from a hardenable packing material, comprising at least one oxidisable component, in particular, zirconium. Said method comprises at least the following steps: a) primary shaping of the mould by packing a model made from a fusible material in the packing material; b) hardening the packing material and melting the model material by heating and finally cooling the mould according to a pre-determined temperature time profile in a furnace. In order to achieve a mould with improved properties, the hardening of the packing material can be carried out under a protective gas atmosphere, or with reduced gas density, in particular at reduced pressure, or in a vacuum. Alternatively, after reaching and maintaining a maximum temperature the mould can be actively cooled, in order to reduce the cooling time.

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