

Title (en)
MATERIAL ON AN ALUMINIUM BASIS FOR ANTI-FRICTION BEARINGS

Title (de)
GLEITLAGERWERKSTOFF AUF ALUMINIUMBASIS

Title (fr)
MATERIAU A BASE D'ALUMINIUM POUR PALIER LISSE

Publication
EP 1099000 B1 20021204 (DE)

Application
EP 99936571 A 19990720

Priority
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• EP 9905152 W 19990720

Abstract (en)
[origin: US6673168B1] An aluminum-based material for anti-friction bearings composed of an aluminum alloy with 10-25 wt % tin or 5-25 wt % lead, impurity-caused components characterized by 0.75-2.5 wt % iron and an alloy additive capable of forming an intermetallic compound having a spherical phase homogeneously distributed in the aluminum alloy. The alloy additive is one of:a) manganese and silicon, in which the weight percentage fractions of manganese and silicon are at least half the weight percentage fraction of the iron and for manganese, at most 3 wt %, and for silicon, at most 2 wt %;b) 0.1-0.5 wt % cobalt; andc) 0.1-0.5 wt % molybdenum.

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