

ABSTRACT

A STRIP COMPOSITE MATERIAL AND A METHOD AND APPARATUS FOR ITS MANUFACTURE

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The invention relates to a strip composite material with a base material of a metal or a metal alloy and a tin coating on the surface, whereby an intermetallic phase (IMP) is constructed between both materials.

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In particular for achieving good wear and corrosion resistance of the composite material with a simultaneously oxide-free surface, 1 to 50 At.-%, preferably 6 to 30 At.-%, carbon (C) are embedded in an outer surface region of the tin coating up to a thickness D of approximately 2 μm .

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A method (oil treatment) and apparatus for the manufacture of the composite material of the invention are also disclosed. (Figure)