



Effect of high power diode laser surface alloying on structure of MCMgAl12Zn1 alloy

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During the last few decades the world has seen a rapid growth of application of magnesium and its alloys almost in every field of today's industry. This is due to numerous characteristics of the metal regarded to herein, which permit its use both as a structural element, and as a chemical addition to other metal alloys. The metal is lighter than aluminum and has bigger tensile strength than steel. Magnesium alloys have low density and other benefits such as: a good vibration damping, high dimension stability, small casting shrinkage, connection of low density and huge strength with reference to small mass possibility to have application in machines and with ease to put recycling process [1-1].

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