

Change of Internal Friction on Magnesium Alloy with 5.48% Al Dependence on the Temperature

Authors : Milan Uhrčík, Andrea Soviarová, Zuzana Dresslerová, Peter Palček, Alan Vaško

Abstract : The article is focused on the analysis changes dependence on the temperature on the magnesium alloy with 5,48% Al, 0,813% Zn and 0,398% Mn by internal friction. Internal friction is a property of the material is measured on the ultrasonic resonant aparature at a frequency about $f = 20470$ Hz. The measured temperature range was from 30 °C up to 420 °C. Precisely measurement of the internal friction can be monitored ongoing structural changes and various mechanisms that prevent these changes.

Keywords : internal friction, magnesium alloy, temperature, resonant frequency

Conference Title : ICEMT 2015 : International Conference on Engineering Materials and Technology

Conference Location : Amsterdam, Netherlands

Conference Dates : May 14-15, 2015