

Abstract: In the present work, the mechanical properties of AJ51 magnesium alloy and composite is studied. Compression tests in the temperature range of 20°C-300°C have been performed. The microstructure of the specimen was studied by means of light optical microscopy. The work is focused on the elucidation of the micromechanisms acting during plastic deformation of the composite specimens. Further a comparison between the mechanical properties of alloy and the composite is presented.