Quasi Static Tests of Adhesive Bonds of Alloy AlCu4Mg

Vladimír Šleger, Miroslav Müller
Faculty of Engineering, Czech University of Life Sciences Prague, Czech Republic. E-mail: sleger@tf.czu.cz, muller@tf.czu.cz.

An application of an adhesive bonding technology is limited by cyclic loading of an adhesive bond. The aim of the experiment is to clarify a fatigue behaviour (low-cyclic tests of the fatigue) of four structural two-component epoxy adhesives applied to an alloy AlCu4Mg. The aim of the research was to evaluate a service life of the adhesive bond. The average fall of the resultant adhesive bond strength was in the interval 3 % to 11 %.

Keywords: Aluminium alloy, Adhesive bond, Structural adhesive, Low-cycling test, Fatigue

Acknowledgement

This paper has been done when solving the grant IGA TF (No.: 2015:31140/1312/3106).

References


