

INFLUENCE OF METALLIC ALLOWANCE ON STATIC AND DYNAMIC PROPERTIES OF EPOXY LAMINATES

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Abstract

Paper presents results of research on composites made from epoxy resin reinforced with glass fiber, modified with aluminum, zirconium dioxide and cobalt aluminate particles. The laminates are made of L-RTM technology using the laboratory test stand which is on the Department of Metal Working and Physical Metallurgy of Non-Ferrous Metals, Faculty of Non-Ferrous Metals, AGH University of Science and Technology. Prepared samples were used to mechanical properties, fatigue, flammability and impact tests. The test results allowed for determine the effect of additives in the form of metallic particles on the static and dynamic properties of epoxy laminates.

Keywords: Composite, epoxy resin, L-RTM technology, mechanical properties

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